

REFERENCE
DEC 14 1935

CATALOGUE

B563

BLACKHAWK WRENCHES



SOCKET
OPEN-END
BOX-TYPE

The Line with the
LOCK-ON FEATURE

BLACKHAWK MFG. CO.
MILWAUKEE, WISCONSIN

CATALOG
No. 235

BLACKHAWK WRENCHES

Index

Quick Reference Index

	Page Nos.		Page Nos.
General		Special Section	
Numerical Index	2- 4	Lubrication Tools	20
Guarantee	4	Tire Service Tools	27-29
Chromium Plated Wrenches		Solid Type Wrenches	30-31
Merchandise Displays	5	Ford Specials	32
Ratchets	6	Chevrolet Specials	33
Offset Handles	7	Brake Wrenches and Sets	35
Speeders	8		
Extensions	9		
Sockets and Attachments	10-13		
Sets	14-19		
Box Type Wrenches	34		
Cadmium Finish Wrenches		Open End Wrenches	
Cabinet Assortment	21	Wrenches and Sets	36-39
Sets	22-23		
Handles and Attachments	24-25		
Sockets	26	Socket Reference Table	40
		Lock-On Feature	
		Insert Opposite Page 20.	

Numerical Price List and Index

No.	Units in Carton	Weight Lbs. Oz.	No.	Units in Carton	Weight Lbs. Oz.	No.	Units in Carton	Weight Lbs. Oz.								
CB	58.50	16	1	19 1/2		D74XX	6.00	11	5	3	12	022	.45	26	10	6
D14	.35	26	10	2		D75XX	6.25	11	5	4	5	024	.45	26	10	7
D16	.35	26	10	3		D78XX	7.50	11	5	4	5	025	.45	26	10	8
D18	.35	26	10	3		D80XX	8.75	11	5	5	1	026	.45	26	5	8
D19	.35	26	10	3		D82XX	10.00	11	5	5	1	028	.45	26	5	9
D20	.35	26	10	3		D84XX	11.25	11	5	5	9	030	.55	26	5	10
D21	.35	26	10	3		D86XX	12.50	11	5	6	2	032	.55	26	5	10
D22	.35	26	10	3		D88XX	13.75	11	5	6	12	034	.65	26	5	10
D24	.40	26	10	4		E-2	.45	38	5			040	.70	26	5	14
D25	.40	26	10	4		E-3	.45	38	5			034XX	1.70	11	1	8
D26	.40	26	10	5		E-4	.45	38	5			036XX	2.00	11	1	10
D28	.40	26	5	6		E-5	.45	38	5			038XX	2.50	11	1	10
D30	.50	26	5	6		E-6	.75	38	5			040XX	3.00	11	1	10
D31	.50	26	5	7		E-7	.60	38	5			044XX	4.00	11	1	2
D32	.50	26	5	7		E-8	.60	38	5			046XX	4.50	11	1	2
D34	.55	26	5	8		E-9	.60	38	5			050XX	5.00	11	1	2
D36	.60	26	5	8		E-10	.60	38	5			052XX	5.50	11	1	2
D40	.65	26	5	9		E-11	.95	38	5			058XX	6.25	11	1	2
D028XX	2.00	11	5	9		H-1	1.60	13	5			064XX	7.00	11	1	4
D032XX	2.25	11	5	14		H-10	.45	38	5			6	74.40	5	1	51
D034XX	2.50	11	5	1		H-12	.45	38	5			9	257.35	5	1	267
D040XX	3.00	11	5	1		H-14	.50	38	5			10HD	8.70	17	1	8
D046XX	3.50	11	5	1		H-16	.50	38	5			11ND	7.60	17	1	4
D052XX	4.00	11	5	2		H-18	.50	38	5			11PD	8.50	23	1	7
D28XX	.90	11	5	8		JB	3.00	15	1	5	6	12ED	65.30	19	1	24 1/4
D30XX	.90	11	5	8		R	16.00	14	1	46 1/4		12PD	13.60	18	1	7
D31XX	.90	11	5	8		T01JX	1.20	25	5			12SD	22.75	19	1	25 1/2
D32XX	.90	11	5	8		T013XX	1.40	25	5			13PD	10.95	18	1	5 1/4
D34XX	1.15	11	5	9		T1	.50	25	6			14BD	33.25	19	1	24
D36XX	1.15	11	5	12		T2	1.65	25	5			14Z	5.55	26	1	3
D38XX	1.15	11	5	12		T2XN	6.25	12	5			15TD	16.45	18	1	7 1/4
D40XX	1.30	11	5	14		T4	.90	24	5			16ND	10.00	17	1	8
D42XX	1.30	11	5	1		T4XN	3.00	7	5			16QD	21.60	17	1	8
D44XX	1.30	11	5	1		T4XX	2.25	9	5			17TD	16.70	18	1	11
D45XX	1.55	11	5	1		T5	.75	24	5			18CB	5.90	38	1	9
D48XX	1.55	11	5	1	4	T6	.75	25	5			18LR	6.60	38	1	12
D50XX	1.80	11	5	1	5	T7	.90	25	5			19AD	17.10	23	1	15
D52XX	1.80	11	5	1	7	T7X	.90	25	5			20C	49.85	21	1	54
D54XX	2.25	11	5	1	8	T8XN	2.25	9	5			20CB	2.40	38	1	8
D56XX	2.25	11	5	1	10	T8XX	5.00	9	5	3		20LR	2.80	38	1	8
D58XX	2.50	11	5	1	12	T9	.85	25	5			22CB	4.70	37	1	2
D60XX	2.50	11	5	1	14	T9N	1.25	12	5			22LR	5.40	37	1	8
D64XX	3.00	11	5	2	2	T9X	.85	25	5			26CB	6.40	36	1	3
D34XX	1.60	11	5	1	6	T9XX	1.10	12	5			26LR	7.25	36	1	3
D36XX	1.60	11	5	1	6	T9XX	2.00	12	5			27CB	41.75	16	1	11
D40XX	1.70	11	5	1	6	T10	.90	25	5			29CD	22.80	22	1	26
D42XX	1.70	11	5	1	7	T13	.35	25	5			30CD	36.55	16	1	27
D44XX	1.70	11	5	1	8	T13X	.70	25	5			35CB	13.55	35	1	2 1/2
D46XX	1.85	11	5	1	9	T17XX	2.75	9	5	2	11	35LR	15.05	35	1	3
D48XX	2.25	11	5	1	15	T17XX	6.00	9	5	5		37CB	30.50	35	1	9
D50XX	2.25	11	5	1	15	T40XX	3.00	9	5	1	10	37S	33.25	35	1	15
D52XX	2.50	11	5	1	15	T90	2.00	12	5	1		38CB	33.80	22	1	39 1/4
D54XX	3.00	11	5	2	6	T115XN	1.00	6	5			40CH	70.15	16	1	51 1/4
D56XX	3.00	11	5	2	6	T113XX	1.00	6	5			43A	17.10	39	1	13
D58XX	3.50	11	5	2	7	V	11.50	15	1	13		43VD	66.60	15	1	31
D60XX	3.50	11	5	2	9	W	27.00	15	1	89		45CB	64.10	15	1	38 1/2
D62XX	4.00	11	5	2	14	012	.35	25	10			60B	44.60	39	1	55
D64XX	4.00	11	5	2	12	014	.35	26	10			70A	71.80	39	1	75
D66XX	4.50	11	5	3	4	016	.35	26	10			70RD	99.30	14	1	86
D68XX	4.75	11	5	3	10	018	.35	26	10			70WD	108.40	14	1	125
D70XX	5.25	11	5	3	8	019	.35	26	10			87WD	135.33	15	1	138
D72XX	5.50	11	5	3	14	020	.35	26	10							

BLACKHAWK WRENCHES

Numerical Price List and Index

Continued

No.	List Price	Page	Units in Carton	Weight Lbs. Oz.	No.	List Price	Page	Units in Carton	Weight Lbs. Oz.	No.	List Price	Page	Units in Carton	Weight Lbs. Oz.
110X	1.00	24	5	1 7	1079S	1.20	38	5	7	2026	.85	36	10	5
150	1.25	23	6	1 12	1081	1.50	38	5	11	2027	.85	36	10	5
151	3.75	20	5	1 10	1081A	1.50	38	5	11	2027C	.85	36	10	5
152	2.00	20	5	1 13	1081B	1.50	38	5	11	2028	1.05	36	5	7
400CB	4.20	37	1	1 12	1083	1.95	38	5	1 1	20288	1.05	36	5	6
400LR	4.90	37	1	1 12	1083A	1.95	38	5	1 1	2029	1.05	36	5	7
401	.65	37	10	2	1083B	1.95	38	5	1 1	2030	1.05	36	5	7
401A	.65	37	10	2	1085	2.75	38	5	1 12	2031	1.40	36	5	12
402	.65	37	10	2	1085B	2.75	38	5	1 10	2032	1.40	36	5	12
402A	.65	37	10	2	1085C	2.75	38	5	1 10	2033	1.40	36	5	12
402B	.65	37	10	2	1114	.45	31	5	9	2033A	1.40	36	5	12
403	.65	37	10	2	1116	.45	31	5	9	2103	1.25	35	5	12
403A	.65	37	10	2	1118	.45	31	5	10	2214	.65	30	5	15
404	.70	37	10	4	1120	.45	31	5	12	2216	.65	30	5	15
404A	.70	37	10	4	1122	.45	31	5	12	2218	.65	30	5	14
404B	.70	37	10	4	1124	.45	31	5	13	2220	.65	30	5	14
404C	.70	37	10	4	1125	.45	31	5	13	2224	.65	30	5	14
405	.70	37	10	4	1128	.45	31	5	13	2304	2.90	34	1	2
406	.75	37	5	5 1/2	1214	.65	30	5	14	2306	4.60	34	1	2
406A	.75	37	5	5 1/2	1216	.65	30	5	14	2308	6.25	34	1	10
406B	.75	37	5	5 1/2	1218	.65	30	5	1 5	2336	3.35	34	1	13
406C	.75	37	5	5 1/2	1220	.65	30	5	1 5	2340	3.35	34	1	14
407	.75	37	5	5 1/2	1224	1.35	38	10	4 1/2	2342	3.35	34	1	15
407A	.75	37	5	5 1/2	1224A	1.35	38	10	4 1/2	2344	5.60	34	1	2
408	.90	37	5	7 1/2	1224L	.65	30	5	1 7	2346	5.60	34	1	2
408A	.90	37	5	7 1/2	1226	1.35	38	10	5	2348	6.00	34	1	2
409	.90	37	5	7 1/2	1228	1.35	38	10	4 1/2	2350	6.00	34	1	2
412	.35	33	5	2	1230	1.35	38	10	4 1/2	2352	7.25	34	1	3
412CB	5.40	37	1	2	1232A	1.35	38	10	4 1/2	2356	7.60	34	1	2
412LR	6.20	37	1	2	1234	1.35	38	10	5	2358	7.75	34	1	2
414	.45	20	5	2	1236S	1.35	38	10	5	2364	9.00	34	1	1
420	.65	37	10	2 1/2	1238	1.35	38	10	4	2422	.75	31	5	4
422	.70	37	10	2 1/2	1240	1.35	38	10	5	2526A	1.40	35	10	2 1/2
424	.75	37	10	4	1244	1.50	38	5	9	2526B	1.40	35	10	2 1/2
426	.90	37	5	6	1246	1.50	38	5	8 1/2	2534	.90	35	10	1 1/2
500	1.10	24	5	1 10	1248	1.50	38	5	8 1/2	2535	1.50	35	10	4
516	.90	30	5	1 12	1250	1.50	38	5	8 1/2	2536	1.25	35	10	2 1/2
518	.90	30	5	1 12	1252	1.50	38	5	8 1/2	2537	1.40	35	10	3
520	.90	30	5	1 12	1256	1.85	38	5	8	2537A	1.40	35	10	3
524	.90	30	5	1 12	1318	.45	31	5	6	2538	1.40	35	10	3
610	1.35	24	5	2 3	1416	.60	31	5	6	2539	1.80	35	10	6 1/2
616	.95	30	5	1 10	1502	1.75	12	5	1	2541	2.40	35	5	6
618	.95	30	5	1 11	1506	.40	10	5	2	2542	1.50	35	10	6
620	.95	30	5	1 13	1507	.40	10	5	2	2545	1.00	32	10	2 1/2
622	.95	30	5	1 13	1508	.40	10	5	2	2561	1.80	35	10	2 1/2
624	.95	30	5	1 13	1509	.40	10	5	2	2561A	1.80	35	10	2 1/2
626	.95	30	5	1 14	1510	.40	10	5	2	2581	2.25	35	5	6
628	.95	30	5	2	1511	.40	10	5	2	2583	2.95	35	5	1
710	.35	26	5	3	1512	.40	10	5	2	2612	.85	34	5	4
712	.35	26	5	3	1514	.40	10	5	2	2616	.95	34	5	10
714	.35	26	5	4	1521	1.25	7	5	2	2619	1.15	34	5	10
716	.35	26	5	4	1523	1.50	13	5	4	2620	1.15	34	5	10
718	.35	26	5	4	1525	.90	9	5	1 1/2	2624	1.35	34	5	1
720	.35	26	5	4	1530	.40	7	5	1	2625	1.35	34	5	1
724	.35	26	5	5	1533	.40	11	5	2	2628	1.65	34	5	2
911X	2.75	25	5	1 8	1554	.40	11	5	2	2630	2.80	34	5	2
916N	9.00	6	5	3 4	1555	.40	11	5	2	2632	2.80	34	5	1
920	15.00	6	5	6 10	1556	.50	11	5	2	2636	3.60	34	5	2
1020	.45	36	10	2 1/2	1557	.50	11	5	2	2675	2.60	34	5	1
1021	.50	36	10	2 1/2	1558	.50	11	5	1	2676	2.60	34	5	1
1022	.60	36	10	3	1618	.60	31	5	11	2721	.50	36	10	2
1023	.60	36	10	3	1721	.50	36	10	2	2722	.50	36	10	1 1/2
1024	.70	36	10	4	1722	.50	36	10	2	2723	.50	36	10	2
1025	.70	36	10	4	1723	.50	36	10	2	2723A	.60	36	10	3
1026	.85	36	10	5	1723A	.60	36	10	3	2725	.70	36	10	3
1027	.85	36	10	5	1725	.70	36	10	4	2725A	.70	36	10	3
1027C	.85	36	10	5	1725A	.70	36	10	4	2725B	.70	36	10	3
1028	1.05	36	10	6 1/2	1725B	.70	36	10	4	2726	.85	36	10	5
1028S	1.05	36	10	7	1726	.85	36	10	5	2727	.85	36	10	5
1029	1.05	36	10	6 1/2	1727	.85	36	10	5	2728	1.05	36	5	7 1/2
1030	1.05	36	10	6	1728	1.05	36	10	7	2729	1.05	36	5	7 1/2
1031	1.40	36	5	13	1729	1.05	36	10	7	2731	1.40	36	5	12 1/2
1032	1.40	36	5	13	1731	1.40	36	5	14	2731A	1.40	36	5	13
1033	1.40	36	5	13	1731A	1.40	36	5	14	2731B	1.40	36	5	12 1/2
1033A	1.40	36	5	13	1731B	1.40	36	5	13	2780	.80	34	5	2
1033C	1.90	36	5	1 3	1731BR	3.75	35	5	1 4	2781	.90	34	5	3
1034	1.90	36	5	1 2 1/2	1733	1.90	36	5	1 3	2782	1.00	34	5	4
1034BR	5.00	35	5	2 2	1734	1.90	36	5	1 3	2784	1.40	34	5	7
1035	1.90	36	5	1 2	1735	2.65	36	5	1 4	2816S	1.20	19	5	5
1036	2.65	36	5	1 12	1735BR	5.00	35	5	2 2	2818S	1.20	13	5	6
1037	2.65	36	5	1 12	1736	2.65	36	5	1 12	2820S	1.20	13	5	4
1075	.80	38	10	2 1/2	1737	2.65	36	5	1 11	2830	.75	31	5	10
1075A	.80	38	10	2 1/2	1820	.60	31	5	14	2912	1.30	34	5	2
1075B	.80	38	10	2 1/2	2005LB	4.50	36	1	1 15	2914	1.35	34	5	4
1077	1.00	38	10	4 1/2	2005LR	5.30	36	1	2	2916	1.40	34	5	6
1077B	1.00	38	5	4 1/2	2018	.80	34	5	4	2918	1.50	34	5	6
1077S	1.00	38	5	5	2021	.50	36	10	1 1/2	2919	1.60	34	5	7
1079	1.20	38	5	6 1/2	2022	.60	36	10	2	2920	1.60	34	5	8
1079A	1.20	38	5	7	2023	.60	36	10	2	2922	1.70	34	5	10
1079B	1.20	38	5	7	2024	.70	36	10	3	2924	1.80	34	5	14
1079C	1.20	38	5	7	2025	.70	36	10	3	2925	1.90	34	5	14

(Continued on Next Page).

</

BLACKHAWK WRENCHES

Numerical Price List and Index

Continued

No.	List Price	Page	Units in Carton	Weight Lbs. Oz.	No.	List Price	Page	Units in Carton	Weight Lbs. Oz.	No.	List Price	Page	Units in Carton	Weight Lbs. Oz.
2926	1.90	34	5	1	6620	.75	10	5	2	8434	1.00	11	5	7
2928	2.10	34	5	1	6621	.75	10	5	2	8436	1.10	11	5	8
2930	2.30	34	5	1	6622	.75	10	5	2	8440	1.20	11	5	9
3114	.50	30	5	1	6624	.90	10	5	2	8502	2.25	12	5	6
3116	.50	30	5	1	6625	.90	10	5	3	8502S	2.05	12	5	2
3118	.50	30	5	1	6626	.90	10	5	4	8512S	2.25	12	5	2
3120	.50	30	5	1	6628	.90	10	5	5	8513S	1.10	12	5	2
3122	.50	30	5	1	6630	1.00	10	5	5	8514S	2.25	12	5	2
3124	.50	30	5	1	6631	1.00	10	5	6	8516S	2.25	12	5	2
3310	1.00	24	5	1	6632	1.00	10	5	6	8518S	2.25	12	5	2
3327	.60	26	5	10	6634	1.25	10	5	7	8520S	2.25	12	5	2
3329	.60	26	5	10	7808S	.60	10	5	1	8552	.85	12	5	3
3432	.95	31	5	1	7810S	.60	10	5	1	8552S	.70	12	5	1
3640	.95	31	5	2	7812S	.60	10	5	1	8560	3.25	12	5	10
3731	.60	26	5	13	7814S	.60	10	5	1	8563XN	1.25	32	5	8
4002A	.40	32	5	1	7816S	.60	10	5	1	8564	1.10	32	5	14
4014X	1.10	32	5	1	7818S	.60	10	5	1	8565	2.80	32	1	2
4018	1.00	32	5	1	7820S	.60	10	5	1	8900	7.65	10	1	5
4021	.75	32	5	1	7822S	.70	10	5	1	8926	1.40	10	5	7
4124	1.00	32	5	1	7824S	.70	10	5	1	8928	1.40	10	5	7
4213	1.60	32	5	1	8108S	.70	11	5	1	8930	1.55	10	5	7
4218	.75	31	5	1	8110S	.70	11	5	1	8932	1.55	10	5	8
4236	.70	32	5	1	8112S	.70	11	5	1	8936	1.75	10	5	9
4316	1.00	32	5	1	8114S	.80	11	5	1	9004	.25	13	5	3
4320	.65	31	5	1	8116S	.80	11	5	1	9201S	1.25	7	5	9
4330	.75	31	5	1	8118S	.80	11	5	2	9202	2.25	7	5	1
4424	.95	31	5	1	8119	.65	11	5	2	9203S	1.10	9	5	3
4926	1.60	33	5	1	8120	.65	11	5	2	9204	1.60	7	5	1
5104	2.75	28	1	4	8122	.70	11	5	6	9206	1.75	9	5	13
5204X	3.25	28	1	3	8124	.65	11	5	3	9206S	1.20	9	5	4
5204Z	4.00	28	1	3	8125	.85	32	2	2	9207	2.85	7	5	1
5206	8.00	29	1	11	8126	.65	11	5	4	9207S	2.50	7	5	8
5220	.50	27	5	1	8128	.65	11	5	5	9207XN	6.25	7	5	14
5222	.50	27	5	1	8129	.70	11	5	6	9208	3.15	7	5	12
5224	.50	27	5	1	8130	.80	11	5	6	9209	.60	7	5	12
5226	.50	27	5	1	8132	1.10	12	5	7	9209S	.45	7	5	4
5228	.50	27	5	1	8133	1.10	12	5	7	9209XN	1.50	7	5	10
5401	1.40	29	5	2	8134	.90	11	5	7	9210	2.00	9	5	1
5434	2.15	29	5	2	8135	1.10	12	5	8	9210S	1.30	9	5	7
5440	2.60	29	5	3	8136	1.10	11	5	8	9217	3.75	7	5	2
5448	3.00	29	5	3	8137	.60	11	5	2	9218S	1.75	9	5	13
5524	.95	27	5	1	8138	.60	11	5	2	9252	1.00	9	5	5
5603	1.50	27	5	2	8139	.60	11	5	2	9260	1.50	9	5	15
6114	.75	30	5	1	8140	.60	11	5	2	9412	2.50	13	5	11
6116	.75	30	5	1	8141	.60	11	5	2	9502S	1.75	8	5	13
6118	.75	30	5	1	8142	.60	11	5	3	9506	2.25	8	5	2
6120	.75	30	5	1	8143	.60	11	5	3	9507	4.25	8	5	4
6124	.75	30	5	1	8144	.60	11	5	3	9510S	1.75	8	5	1
6128	.75	30	5	1	8145	.75	11	5	3	9611	2.25	8	5	2
6600	11.85	10	1	2	8146	.60	11	5	3	9707S	5.50	6	5	7
6614	.75	10	5	2	8147	.60	11	5	4	9802	.45	6	5	2
6616	.75	10	5	2	8148	.75	11	5	5	9809	5.00	6	5	1
6618	.75	10	5	2	8149	.90	11	5	6	9810	6.50	6	5	1
6618F	.75	32	5	2	8150	.90	11	5	6	9811	3.35	6	5	1
6619	.75	10	5	2	8151	.90	11	5	6	12002	2.00	13	5	8

All Blackhawk Wrenches are guaranteed against defects both in workmanship and material. This also covers spreading or breaking. Free replacements will be made on all wrenches that do not stand up to this guarantee.

This guarantee is void if inspection shows that handles or sockets have been hammered or used with Stillson Wrenches for extra leverage—handles or sockets have been ground thinner or changed in design—sockets were used on over or under sized nuts—undue leverage was exerted—tools are worn out from use—or any wrench has been used for purposes other than intended.

We are in an excellent position to quote on your special wrench requirements --- any type --- any quantity.

BLACKHAWK MFG. COMPANY
Milwaukee Wisconsin

BLACKHAWK WRENCHES

Blackhawk Socket Wrenches are made in two distinct grades:

THE "CHIEF" LINE—our best and most strongly advertised product, chrome vanadium steel, chromium finished, with the famous exclusive "Lock-On" feature. This line comprises both thin wall and standard wall sockets and many exclusive handle designs, such as patented "Free Wheeling" ratchet wrench and many other labor saving handles.

This line is described in the catalog from pages 6 to 19 inclusive, printed in black and royal purple.

THE "COMPETITIVE" LINE. Selected steel, carefully heat treated, cadmium plated, but without the "Lock-On" feature. Handles are sturdy and up-to-date in design, with particular attention paid to the reversible ratchet wrench. Sockets—trim and tough.

Shown in this catalog from pages 21 to 26 inclusive, printed in black only, with purple headings.

BLACKHAWK-ARMSTRONG OPEN END WRENCHES. Thin and slim, long and tough,—made of chrome vanadium steel, chromium plated. Well designed and balanced for easier work. Shown on pages 36 to 39.

ENGINEERING—The engineering on the entire Blackhawk line, including Socket and Open End wrenches, is the result of careful checking of all modern cars. Steel used is the very best for the purpose, carefully and properly heat treated.

COMPLETE LINE—Blackhawk offers the most complete line of socket, open end, and box type wrenches for sale through jobbers. Careful engineering and design combined with the "Lock-On" feature have eliminated many so-called trick wrenches for special jobs. This means greater utility at lower cost to the mechanic and is important to every distributor because it cuts down obsolescence.

SEVERAL SERIES OF SOCKET WRENCHES—Wherever different size square drives are shown in catalog, descriptive series names have been used. Example— $\frac{1}{2}$ " square drive is always referred to as "Standard Series"—

Extra Small Series	$\frac{1}{4}$ " Sq. Drive
Small Series	$\frac{3}{8}$ " Sq. Drive
Standard Series	$\frac{1}{2}$ " Sq. Drive
Heavy Duty Series	$\frac{3}{4}$ " Sq. Drive
Extra Heavy Duty Series	$\frac{1}{2}$ " Sq. Drive

TO THE JOBBER SALESMAN—We recommend consistent effort to sell sets for larger volume.

Merchandising Displays

No. 9 High-Boy—An attractive complete assortment of Blackhawk wrenches. Tools can be removed. Includes 177 sockets, handles, and attachments, and one No. 27CB set.

No.

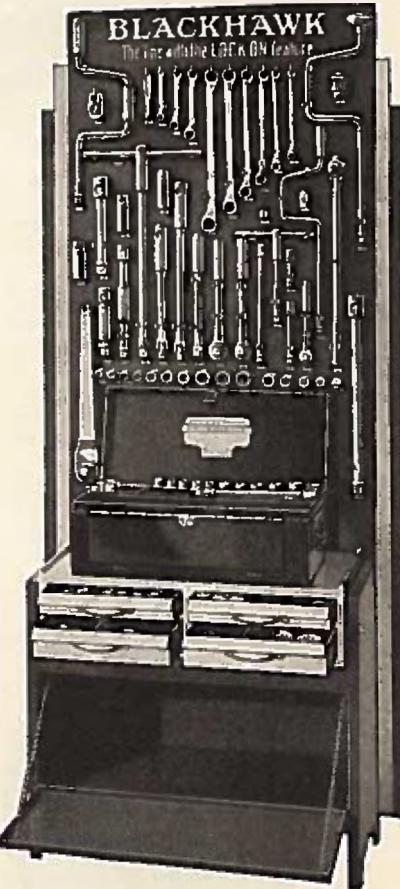
9 High-Boy—Complete List Price, \$257.35

No. 6 Low-Boy—A popular assortment for the dealer including 75 sockets, handles, and attachments in the chromium plated "Lock-On" line. Display finished in purple, silver, red, and black.

No.

6 Low-Boy—Complete List Price, \$74.40

Liberal Discount to Dealers and Mechanics



No. 9 High-Boy



No. 6 Low-Boy

BLACKHAWK WRENCHES

Chrome Vanadium - Chromium Plated Ratchets

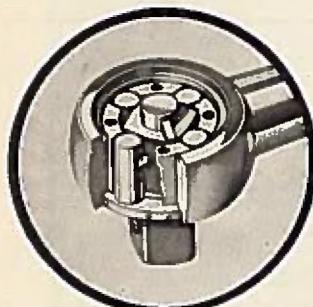
PATENTS
PENDING

Reversible "Free Wheeling" Ratchets

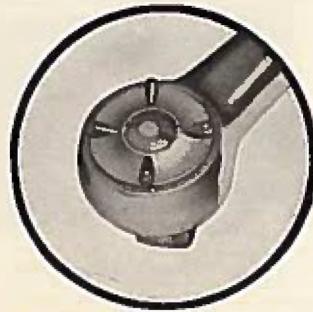
$\frac{3}{4}$ " & $\frac{1}{2}$ " Square "Lock-On" Drive

These new "Free Wheeling" ratchet wrenches have met the hearty approval of mechanics because of these outstanding features—instant reverse without removing socket—noiseless smooth operation—no teeth—no back-lash—instant grip in any position—no play—small diameter head and narrow neck—light weight—and perfect balance. Drop forged chrome molybdenum steel.

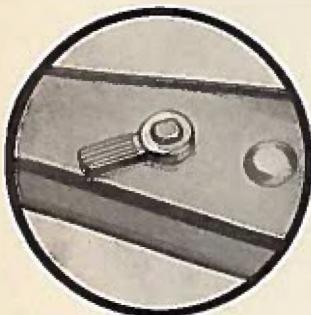
They're ideal for work in close confined places where clearance is small.



Cut-through view of "Free Wheeler" showing construction. Rollers held firmly in contact by spring-backed plunger.



Narrow, neat appearing head of No. 9809. Convenient lobes on top plate facilitate reversing. Simply hold plate with thumb and turn socket.



Convenient reversing lever on 9811. Simply flip lever right or left to reverse action.

Nos. 9707S & 9810

"Free Wheeling" Ratchets
(Reg. Trade Mark)



No.	Dia. of Head	Length	"Lock-On" Sq. Drive	List Price
9707S	$1\frac{1}{8}$ "	7"	$\frac{3}{4}$ "	\$5.50
9810	$1\frac{3}{8}$ "	$10\frac{1}{2}$ "	$\frac{1}{2}$ "	6.50

Mechanical Ratchets — Reversible $\frac{1}{2}$ " Square "Lock-On" Drive

PATENTS
PENDING

A greatly improved mechanical ratchet. Double ratchet engagement gives smoother action—reverses instantly without removing socket (see illustration)—small head, $1\frac{3}{8}$ " diameter and narrow neck for close quarter work. Drop forged chrome vanadium steel.

Hollowed knurled grip permits the use of No. 9209 Handle Bar for additional leverage.

9809	$1\frac{3}{8}$ "	$10\frac{1}{2}$ "	$\frac{1}{2}$ "	\$5.00
------	------------------	-------------------	-----------------	--------



Redesigned to give mechanics a faster acting, easier reversing ratchet. Eighteen teeth insure smooth action and short bites in close quarters. Reverses instantly by flipping small lever on top of handle (see close-up view).

9811	$1\frac{1}{8}$ "	10"	$\frac{1}{2}$ "	\$3.35
------	------------------	-----	-----------------	--------

$\frac{3}{4}$ " & $\frac{1}{2}$ " Square "Lock-On" Drive



U. S. Pat. No. 1,873,472

U. S. Pat. No. 1,807,134

For heavy duty work of all kinds. Instantly reversible by shifting patented lug.

916N	$2\frac{1}{4}$ "	16"	$\frac{3}{4}$ "	\$9.00
920	$2\frac{3}{8}$ "	20"	$\frac{1}{2}$ "	15.00

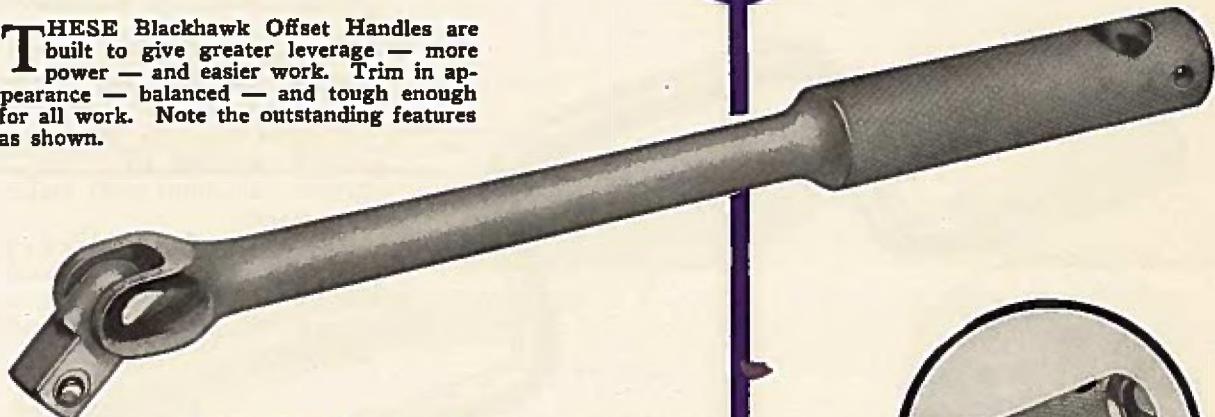
Replacement Drive Lugs for Ratchets

No.	"Lock-On" Sq. Drive	For use with No.	List Price
9802	$\frac{1}{2}$ "	Old 9811	\$0.45
T113XN	$\frac{3}{4}$ "	916N	1.00
T113XX	$\frac{1}{2}$ "	920N	1.00

Chrome Vanadium-Chromium Plated Offset Handles

BLACKHAWK WRENCHES

THESE Blackhawk Offset Handles are built to give greater leverage — more power — and easier work. Trim in appearance — balanced — and tough enough for all work. Note the outstanding features as shown.



Hinged Offset Handles

No.	Stock Dia.	Length	"Lock-On" Sq. Drive	List Price
*9207S	$\frac{7}{16}$ "	8"	$\frac{1}{4}$ "	\$2.50
9207	$\frac{9}{16}$ "	11 $\frac{1}{8}$ "	$\frac{1}{2}$ "	2.85
9208	$\frac{5}{8}$ "	15 $\frac{1}{8}$ "	$\frac{1}{2}$ "	3.15
9217	$\frac{9}{16}$ "	18"	$\frac{1}{2}$ "	3.75
9207XN	$\frac{11}{16}$ "	19"	$\frac{3}{4}$ "	6.25

*Does not have square opening in handle grip.

Sliding Offsets



9204	$\frac{7}{16}$ "	11"	$\frac{1}{2}$ "	\$1.60
T4XN	$\frac{11}{16}$ "	18"	$\frac{3}{4}$ "	3.00

Offset Handle



9201S	$\frac{7}{16}$ "	7 $\frac{1}{2}$ "	$\frac{1}{2}$ "	\$1.25
-------	------------------	-------------------	-----------------	--------

Obstruction Offset Handles



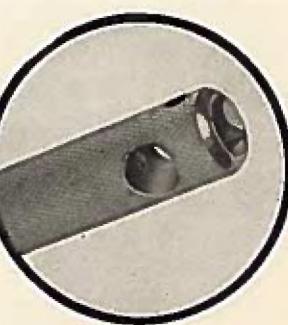
1521	$\frac{7}{16}$ "	5"	$\frac{1}{4}$ "	\$1.25
9202	$\frac{9}{16}$ "	11"	$\frac{1}{2}$ "	2.25

*Equipped with frictional lock only. No Lock-On.

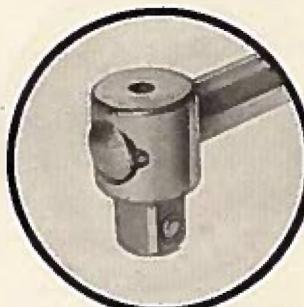
Handle Bars



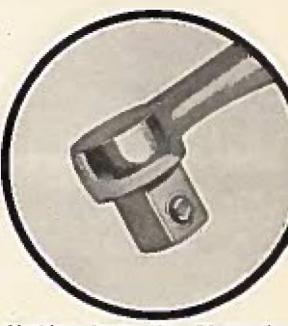
No.	1530	$\frac{1}{4}$ " dia., 4 $\frac{1}{2}$ " long. Used with 1525 to make T or L wrenches.	
		List Price, each .....	.40
9209S	$\frac{3}{16}$ " dia., 7" long. Used with 9203S, 9206S, 9207S, 9210S, 9218S and 9707S to make T or L wrenches.		.45
		List Price, each	
9209	$\frac{3}{16}$ " dia., 11" long. Used with 9206, 9207, 9208, 9210, 9217 and 9260 to make T or L wrenches. Also for extra leverage on 9202, 9809 and 9810.		
		List Price, each .....	.60
9209XN	$\frac{11}{16}$ " dia., 18" long. Used with 9207XN to make T or L wrench or for extra leverage when inserted in end of grip.		
		List Price, each	1.50



Triple duty wrenches — Hinged Offsets can also be used as extensions because of square broaching in end of handle as shown. Cross hole takes handle bar to make T or L Wrench.



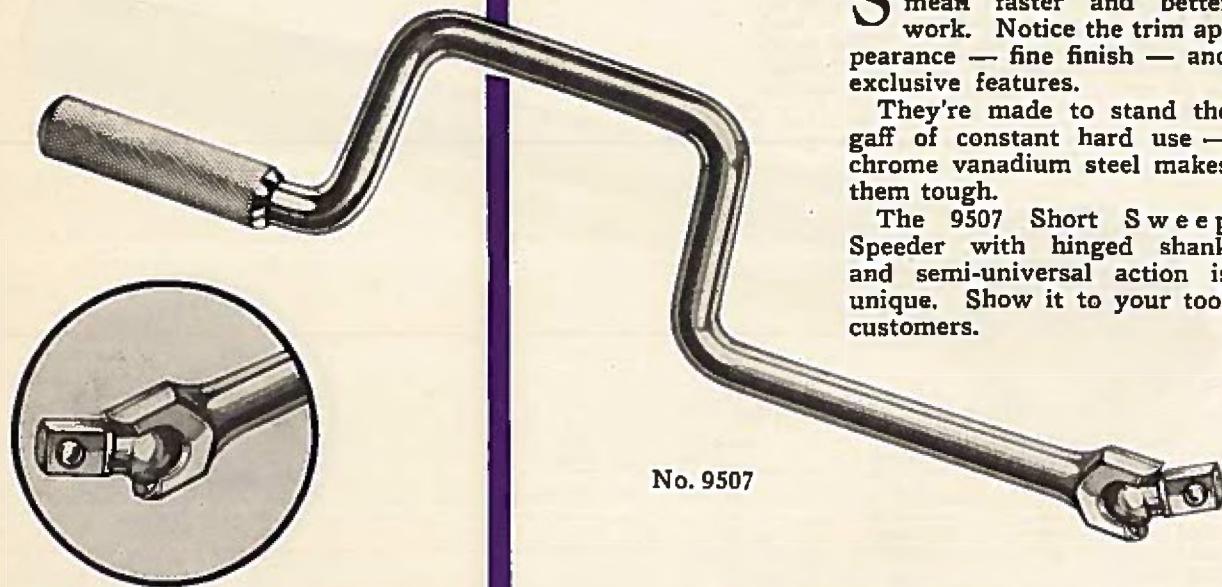
Plenty of clearance with these Sliding Offsets. Handle does not stick out beyond head. Note recess for stop ball. Spring ball in head holds it in any position.



Nothing beats the Obstruction Offsets for minimum clearance. Thin wide throat — small narrow head — but strength is there plenty.

BLACKHAWK WRENCHES

Chrome Vanadium - Chromium Plated
Speeders

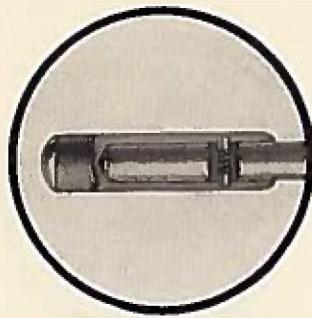


Here's the head that makes the 9507 a real nut buster. Slotted throat gives 90° offset for leverage and 45° universal action.

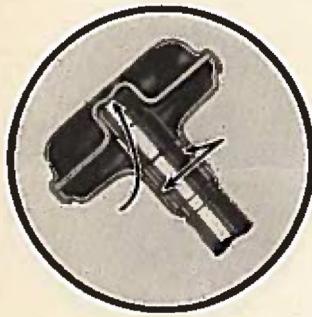
Hinged Universal Speeder
(Shown Above)

A practical short sweep speeder that combines both a hinged shank for offset leverage and semi-universal action for speed in close quarters.

No.	Stock Dia.	Length	Shank Length	Sweep	"Lock-On" Sq. Drive	List Price
9507	$\frac{5}{16}$ "	17 $\frac{1}{4}$ "	7"	2 $\frac{3}{4}$ "	$\frac{3}{8}$ "	\$4.25



Grip handles on Braces never come off, stick, or jam. They're held by Blackhawk's patented method as shown. Smooth action means easy work.



U. S. Pat. No.
1,764,890

Arrows indicate hardened thrust and sleeve bearings that make for real speed — minimize wear and prevent sticking. Note grip is spun onto handle — can't come off.

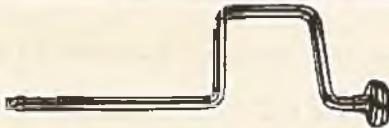
Brace Handles



9502S	$\frac{1}{4}$ "	10 $\frac{1}{4}$ "	2"	3 $\frac{1}{4}$ "	$\frac{3}{8}$ "	\$1.75
9506	$\frac{1}{8}$ "	15 $\frac{1}{4}$ "	6"	4 $\frac{1}{4}$ "	$\frac{1}{2}$ "	2.25

*Revolving grip at end only.

Speeder Handles

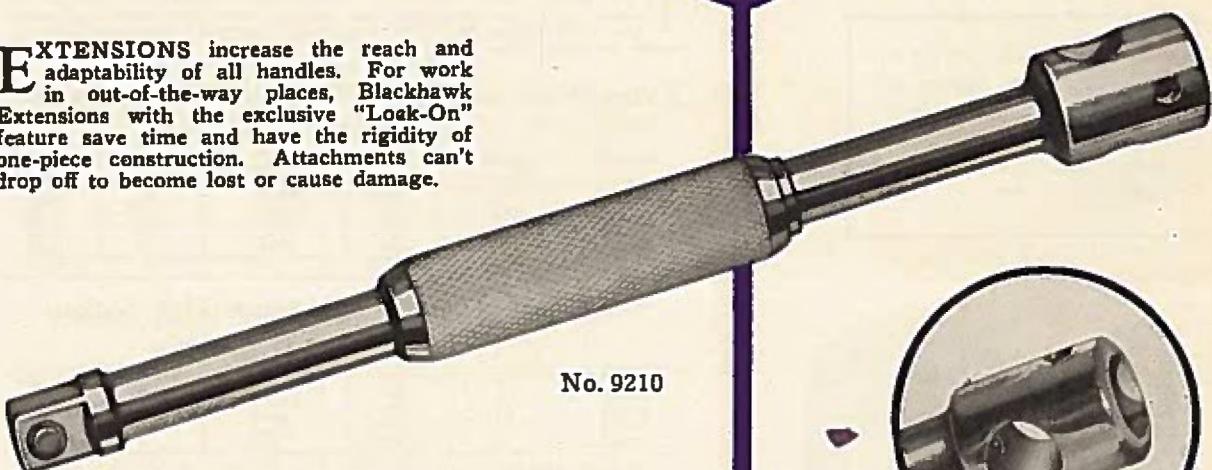


9510S	$\frac{1}{8}$ "	18"	10"	3 $\frac{1}{4}$ "	$\frac{3}{8}$ "	\$1.75
9611	$\frac{1}{16}$ "	19"	11"	4 $\frac{1}{4}$ "	$\frac{1}{2}$ "	2.25

Chrome Vanadium-Chromium Plated Extensions

BLACKHAWK WRENCHES

EXTENSIONS increase the reach and adaptability of all handles. For work in out-of-the-way places, Blackhawk Extensions with the exclusive "Lock-On" feature save time and have the rigidity of one-piece construction. Attachments can't drop off to become lost or cause damage.



No. 9210

Extensions with Revolving Grip (Illustrated Above)

No.	Stock Dia.	Length	"Lock-On" Sq. Drive	List Price
9206	$\frac{5}{16}$ "	6"	$\frac{1}{4}$ "	\$1.75
9210	$\frac{5}{16}$ "	10"	$\frac{1}{4}$ "	2.00

Blackhawk Extensions do double duty — cross hole in head takes handle bar to make Tee or L wrench. Spring ball holds bar firmly in any position.

Standard Extension Bars



*1525	$\frac{5}{16}$ "	5"	$\frac{1}{4}$ "	\$0.90
9203S	$\frac{1}{2}$ "	3"	$\frac{3}{8}$ "	1.10
9206S	$\frac{5}{16}$ "	5"	$\frac{3}{8}$ "	1.20
9210S	$\frac{1}{2}$ "	10"	$\frac{3}{8}$ "	1.30
9218S	$\frac{5}{16}$ "	18"	$\frac{3}{8}$ "	1.75
**9252	...	2"	$\frac{1}{2}$ "	1.00
9260	$\frac{5}{16}$ "	10"	$\frac{1}{2}$ "	1.50

*Not equipped with Lock-On.

**Similar in appearance to No. T40XX shown below. Can be used with handle bar No. 9209 to make sliding offset.

Heavy and Extra Heavy Duty Extensions



T8XN	$\frac{11}{16}$ "	$8\frac{1}{2}$ "	$\frac{1}{4}$ "	\$2.25
T17XN	$\frac{11}{16}$ "	17"	$\frac{1}{4}$ "	2.75
T8XX	1"	9"	$\frac{1}{4}$ "	5.00
T17XX	1"	18"	$\frac{1}{4}$ "	6.00

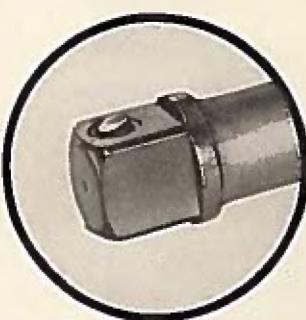
Sliding T — Extra Heavy Duty



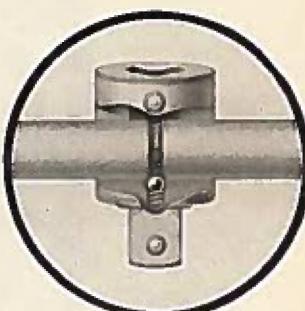
No. T4XX — Bar only, 1" dia., 24" long. Used with T8XX, T17XX and T40XX.
List Price, each \$2.25

No. T40XX — Head and adaptor for T4XX, $\frac{5}{16}$ " Square Lock-On Drive.
List Price, each \$3.00

All Extra Heavy Duty Series— $\frac{1}{4}$ " sq. drive—are finished in Cadmium.



Note the trim, clean, business-like appearance of the Blackhawk drive. Edges chamfered to prevent sticking — milled to a perfect fit — with butt stop that keeps socket in position.



Here's a feature of the Sliding Tee — spring ball in head engages with groove in center of handle to prevent slipping — a real convenience for heavy work.

BLACKHAWK WRENCHES

Chrome Vanadium-Chromium Plated Thin Straight Wall Sockets

To determine socket size—last two figures in each socket number indicates size in 32nds of an inch. Example: No. 8414 indicates 14/32" or 7/16".



No. 1506 Series



No. 7808S Series



No. 6614 Series



No. 8926 Series

THE finest chrome vanadium steel—durable chromium plating—precision double hex broaching—and straight sides make these Blackhawk thin wall sockets the finest a mechanic can buy. They are made to tackle the tough jobs—and stand the gaff.

Extra Small Series Thin Wall Double Hex Sockets

1/4" Square Drive

Socket No.	Socket Size	List Price	Socket No.	Socket Size	List Price
*1506	1/16	.40	*1510	5/16	.40
*1507	1/8	.40	*1511	11/16	.40
*1508	1/4	.40	1512	25/32	.40
*1509	5/8	.40	1514	3/4	.40

*Single Hexagon.

Small Series Thin Wall Double Hex Sockets

3/8" Square Lock-On Drive

*7808S	1/4	.60	7818S	5/16	.60
*7810S	1/2	.60	7820S	11/16	.60
7812S	5/8	.60	7822S	15/16	.70
7814S	7/8	.60	7824S	13/16	.70
7816S	15/16	.60			

*Single Hexagon.

Standard Series Thin Wall Double Hex Sockets

1/2" Square, Lock-On Drive

6614	1/16	.75	6625	5/16	.90
6616	1/8	.75	6626	11/16	.90
6618	5/16	.75	6628	15/16	.90
6619	13/32	.75	6630	1	1.00
6620	11/16	.75	6631	11/16	1.00
6621	15/32	.75	6632	1	1.00
6622	13/16	.75	6634	11/16	1.25
6624	3/4	.90			

No. 6600 Set—Thin Wall Sockets

Fourteen of the most popular Thin Wall Sockets packed in strong cardboard box. Lock-on feature, 3/8" square drive. Sizes from 1/16" to 1". One each Nos. 6614, 6616, 6618, 6619, 6620, 6621, 6622, 6624, 6625, 6626, 6628, 6630, 6631 and 6632.

No. 6600 Set List Price \$11.85



Spark Plug Sockets — Thin Wall Double Hex

1/2" Square Lock-On Drive

Here's a complete series of extra deep, thin wall double hex spark plug sockets ranging from 1/8" to 1 1/4". 1/2" Square "Lock-On" Drive broaching makes them adaptable to any of the handles in the standard series. Cross hole permits use of bar for leverage.

Socket No.	Socket Size	Overall Length	Max. Diam.	List Price
*8926	1/8"	3 1/4"	1 1/8"	\$1.40
8928	5/16"	3 1/4"	1 1/8"	1.40
8930	11/16"	3 1/4"	1 1/4"	1.55
*8932	1"	3 1/4"	1 1/8"	1.55
8936	1 1/16"	3 1/4"	1 1/8"	1.75

*For 14MM Metric Plugs.

**For 18MM Metric Plugs.

No. 8900 Set—Spark Plug Sockets

A handy set of new extra deep thin wall spark plug sockets. Socket range 1/8" to 1 1/4". Practically every car, including the new models can be serviced with this set. Packed in strong cardboard box.

Contents: One each Nos. 8926, 8928, 8930, 8932 and 8936.

No. 8900 Set List Price \$7.65



Note:—See page 40 for Socket Reference Table.

Chrome Vanadium-Chromium Plated
Sockets

BLACKHAWK
WRENCHES

Standard Series Double Hex Sockets

1/2" Square Lock-On Drive

Socket No.	Socket Size, In.	List Price	Socket No.	Socket Size, In.	List Price
8412	7/16	.60	8425	9/16	.75
8414	9/16	.60	8426	11/16	.75
8416	5/8	.60	8428	13/16	.75
8418	11/16	.60	8430	15/16	.90
8419	13/16	.60	8431	17/16	.90
8420	7/8	.60	8432	1	.90
8421	11/8	.60	8434	11/4	1.00
8422	13/8	.60	8436	11/2	1.10
8424	7/4	.75	8440	13/4	1.20

Heavy Duty Series Double Hex Sockets

3/4" Square Lock-On Drive

D28XN	7/16	.90	D46XN	17/16	1.55
D30XN	13/16	.90	D48XN	19/16	1.55
D31XN	11/2	.90	D50XN	21/16	1.80
D32XN	1	.90	D52XN	23/16	1.80
D34XN	11/8	1.15	D54XN	25/16	2.25
D36XN	13/8	1.15	D56XN	27/16	2.25
D38XN	15/8	1.15	D58XN	29/16	2.50
D40XN	13/4	1.30	D60XN	31/16	2.50
D42XN	15/4	1.30	D64XN	2	3.00
D44XN	17/4	1.30			

Extra Heavy Duty Series Double Hexagon
Sockets (Cadmium Plated)

5/8" Square Lock-On Drive with Thumb Release
No release key necessary

D34XX	11/8	1.60	D64XX	9	4.00
D36XX	13/8	1.60	D66XX	21/16	4.50
D40XX	15/8	1.70	D68XX	23/16	4.75
D42XX	17/8	1.70	D70XX	25/16	5.25
D44XX	19/8	1.70	D72XX	27/16	5.50
D46XX	17/4	1.85	D74XX	29/16	6.00
D48XX	19/4	2.25	D76XX	31/16	6.25
D50XX	15/2	2.25	D78XX	33/16	7.50
D52XX	15/2	2.50	D80XX	21/2	8.75
D54XX	15/2	3.00	D82XX	23/2	10.00
D56XX	15/2	3.00	D84XX	25/2	11.25
D58XX	15/2	3.50	D86XX	27/2	12.50
D60XX	15/2	3.50	D88XX	29/2	13.75
D62XX	15/2	4.00			

Larger Sizes can be furnished on request.

Double Square Sockets
Extra Small Series—1/4" Square Drive

1553	7/16	.40	1556	5/8	.50
1554	1/2	.40	1557	13/16	.50
1555	15/16	.40	1558	1	.50

*Single Square.

Small Series—3/8" Square Lock-On Drive

8108S	7/16	.70	8114S	11/16	.80
8110S	11/16	.70	8116S	21/16	.80
8112S	13/16	.70			

Standard Series—1/2" Square Lock-On Drive

8110	5/16	.65	8122	11/16	.70
8112	7/16	.65	8124	13/16	.80
8114	11/16	.65	8125	15/16	.80
8116	11/2	.65	8126	17/16	.90
8118	13/2	.65	8128	1	.90
8119	15/2	.65	8130	11/16	1.10
8120	15/2	.65	8132	1	1.10

Heavy Duty Series—3/4" Square Lock-On Drive

D028XN	7/16	2.00	D040XN	11/4	3.00
D032XN	1	2.25	D046XN	11/2	3.50
D034XN	11/2	2.50	D052XN	13/2	4.00

*Extra Heavy Duty Series—7/8" Sq. Lock-On Drive

034XX	11/2	1.70	046XX	11/2	4.50
036XX	13/8	2.00	050XX	11/2	5.00
038XX	15/8	2.50	052XX	15/16	5.50
040XX	13/4	3.00	058XX	11/2	6.25
044XX	15/4	4.00	064XX	2	7.00

*Single Square Openings.

Note:—See page 40 for Socket Reference Table.

Liberal Discount to Dealers and Mechanics



No. 8412 Series



No. D28XN Series



No. D34XX Series—Double Hex.



Nos. 1553 Series

8108S

8110

D028XN

034XX

BLACKHAWK WRENCHES

Chrome Vanadium-Chromium Plated Sockets and Attachments



No. 8560



Nos. 1502
8502
8502-S
T2XN



No. 8512-S Series



Nos. 8552-S
8552



No. 8513S



No. T9XN Series

Stud Setter and Extractor

Used with any standard $\frac{3}{4}$ " square drive handle. Has 2 drilled holes for changing position of serrated gear to fit studs from $\frac{1}{4}$ " to $\frac{3}{4}$ ". Gears are milled and not knurled providing longer life.

No. 8560 List Price, each \$3.25

Universal Joints

A GREATLY improved series of universal joints — stock diameter reduced offering more clearance — accessibility increased by shorter overall length — and full 90° angle to reach awkward jobs.

No.	Series	Square Drive	List Price
1502	Extra Small	$\frac{1}{4}$ " Friction Ball	\$1.75
8502S	Small	$\frac{3}{16}$ " Lock-On	2.05
8502	Standard	$\frac{1}{2}$ " Lock-On	2.25
T2XN	Heavy Duty	$\frac{3}{8}$ " Lock-On	6.25

Universal Joint Sockets

No.	Socket Size	"Lock-On" Sq. Drive	List Price
8512S	$\frac{3}{8}$ "	$\frac{3}{8}$ "	\$2.25
8514S	$\frac{1}{2}$ "	$\frac{3}{8}$ "	2.25
8516S	$\frac{5}{8}$ "	$\frac{3}{8}$ "	2.25
8518S	$\frac{7}{8}$ "	$\frac{3}{8}$ "	2.25
8520S	$\frac{1}{2}$ "	$\frac{3}{8}$ "	2.25

For manifold, generator, starter, water pump and carburetor mountings, etc.

Tie Rod and Screw Driver Attachments

No.	Edge of Blade	Overall Length	"Lock-On" Sq. Drive	List Price
8552S	$\frac{1}{2}$ " x $\frac{1}{8}$ "	1"	$\frac{3}{8}$ "	\$0.70
8552	$\frac{1}{2}$ " x $\frac{3}{16}$ "	1 $\frac{1}{2}$ "	$\frac{3}{8}$ "	.85

Chevrolet Oil - Pan Socket

No. 8513S Screw Driver Socket, $\frac{3}{8}$ " Square Lock-On Drive. List Price \$1.10

Adaptors

Equipped With Lock-On Drive

Adaptor Number	Female Opening	Used on Handles to	Male End	List Price
T9XN	$\frac{1}{2}$ "	Increase to	$\frac{3}{8}$ "	\$1.10
T9XX	$\frac{3}{4}$ "	Increase to	$\frac{7}{8}$ "	2.00
T9N	$\frac{5}{8}$ "	Decrease to	$\frac{1}{2}$ "	1.25
T90	$\frac{7}{8}$ "	Decrease to	$\frac{3}{4}$ "	2.00

Chrome Vanadium-Chromium Plated
Handles and Attachments

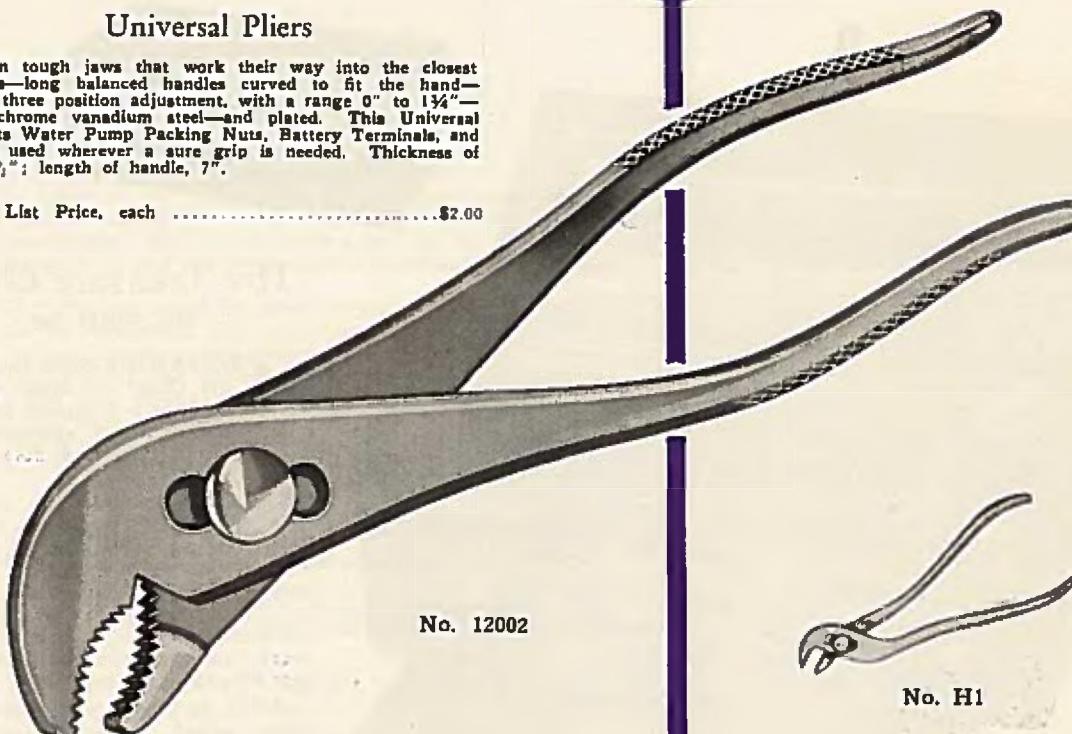
BLACKHAWK
WRENCHES

Universal Pliers

Thin tough jaws that work their way into the closest quarters—long balanced handles curved to fit the hand—instant three position adjustment, with a range 0" to 1 1/4"—tough chrome vanadium steel—and plated. This Universal Plier fits Water Pump Packing Nuts, Battery Terminals, and can be used wherever a sure grip is needed. Thickness of jaws, 3/16"; length of handle, 7".

No.

12002 List Price, each \$2.00



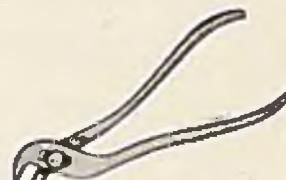
No. 12002

Universal Ignition Pliers

New style Ignition Pliers, with full-fashioned grip handle. Easier to hold and to work with. Especially adapted to ignition service, carburetors, radios and other small jobs. Three position slip jaws provide opening range from 0 to 5/8". Thickness of jaws, 3/16"; over all length, 5".

No.

H1 List Price, each \$1.60



No. H1



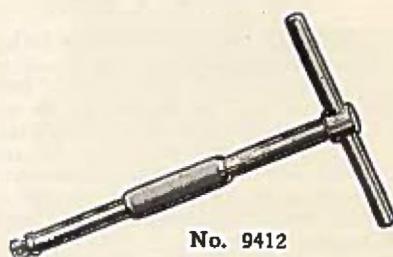
No. 1523

Midget Grip Handle

5" long, 3/4" square friction drive. Has hard rubber handle giving sturdy grip for speed and leverage. Adapted for use with No. 1521 as an L wrench.

No.

1523 List Price, each \$1.50



No. 9412

Tee Handle

No.	Stock Dia.	Handle Length	Crossbar Length	"Lock-On" Sq. Drive	List Price
9412	5/8"	12"	8"	5/8"	\$2.50

Has sturdy revolving grip.

Crowfoot Wrenches

For aeronautical and automotive work. Jaws similar to open end wrenches for sure grip in otherwise inaccessible places.

No.	Size of Opening	Stock Dia.	Length	"Lock-On" Sq. Drive	List Price
2816S	5/16"	1/4"	3 1/4"	5/16"	\$1.20
2818S	3/8"	5/16"	3 1/4"	5/16"	1.20
2820S	7/16"	5/16"	3 1/4"	5/16"	1.20



Nos. 2816S—2818S
2820S

"Lock-On" Release Key

This new handy Release Key can be used for releasing all Lock-On Sockets in the 5/16", 3/8" and 7/16" square drive series.

No.

9004 List Price, each \$0.25



No. 9004

BLACKHAWK WRENCHES

Chrome Vanadium - Chromium Plated
Wrench Set



Treasure Chest

The true mechanic will itch to lay hands on each silver bright tool of the Blackhawk Treasure Chest. And his pride will be pleased at the attractive individual brass name plate furnished for the top cover of each 70RD set. Name plate will be sent, ready to be attached, on receipt of card which is included with each Treasure Chest.

Add to these advantages the well known features of—Lock-on Sockets—Chrome Vanadium Steel—Chromium Plating—double hexagon sockets—full guarantee of replacement at any time should material or workmanship prove defective. Small wonder then that every mechanic will find he has just the bench or floor space for the newest Blackhawk achievement, the Treasure Chest.

Aeromotive mechanics will welcome this set. Show them the lightness, strength and wide range of usefulness.

The Treasure Chest

No. 70RD Set

Mechanics claim the Treasure Chest the finest achievement in a complete yet compact assortment of essential handles, attachments and sockets for the expert.

Under one lock he can now obtain this set of 70 tools — for any job from the fussiest work on ignition systems, generators, relays, starters, radios, aeromotive work, to smaller assembly jobs, general automotive repair, truck and bus work, tractors, farm machinery and many industrial uses.

All in de luxe R case which provides added room for coveralls, hammers, pliers, and other small tools. The superior features of these improved wrenches are fully covered in the pages that precede and follow this one.

The 70RD "Treasure Chest"

Contents of Set

Extra Small Series — $\frac{1}{4}$ " Square Drive

One each Midget Obstruction Offset No. 1521, Grip Handle No. 1523 and Extension Bar No. 1525; Single Hex Sockets from $\frac{1}{8}$ " to $\frac{1}{2}$ ", Nos. 1506, 1507, 1508, 1509, 1510, 1511; Double Hex Sockets from $\frac{3}{8}$ " to $\frac{1}{2}$ ", Nos. 1512 and 1514. All packed in individual metal case "N".

Small Series — $\frac{3}{8}$ " Square Lock-On Drive

One each Speeder Handle No. 9510S, Hinged Offset No. 9207S, Handle Bar No. 9209S, Extension Bars Nos. 9206S and 9210S, Screw Driver No. 8552S, Universal Joint No. 8502S; Double Hexagon Sockets from $\frac{3}{8}$ " to $\frac{3}{4}$ ", Nos. 7812S, 7814S, 7816S, 7818S, 7820S, 7822S and 7824S.

Standard Series — $\frac{1}{2}$ " Square Lock-On Drive

One each Brace Handle No. 9506, Free Wheeling Ratchet Wrench No. 9810, Extension Nos. 9206 and 9210, Handle Bar No. 9209, Hinged Offset No. 9208, Screw Driver No. 8552, Universal Joint No. 8502; Double Hexagon Sockets from $\frac{1}{2}$ " to 1", Nos. 6614, 6616, 6618, 6619, 6620, 6621, 6622, 6624, 6625, 6626, 6628, 6630, 6632; Double Square Sockets from $\frac{1}{2}$ " to $\frac{3}{4}$ ", Nos. 8114, 8116, 8118, 8120, 8124. Two Lock-On Release Keys No. 9004. Can be used with all series of Lock-On Sockets and attachments.

Heavy Duty Series — $\frac{3}{4}$ " Square Lock-On Drive

One each Sliding Offset No. T4XN, Extensions Nos. T8XN and T17XN, Double Hexagon Sockets from $1\frac{1}{8}$ " to $1\frac{1}{2}$ ", Nos. D34XN, D36XN, D40XN, D44XN, D46XN, D48XN, D56XN, D58XN.

Short Box Type Wrenches

One each Nos. 15176, 15177, 15178. Sizes $\frac{3}{8}$ " to $\frac{1}{2}$ " Double Hex.

Spark Plug Sockets

One each Thin Wall extra deep sockets, Nos. 8926, 8928 and 8932, with $\frac{3}{8}$ " Square Lock-On Drive.

List

Price

70RD Set, 70 pieces, complete in R case..... \$ 99.30

70WD Set, same as above complete in W case..... 110.30

R Case only—23 $\frac{1}{4}$ " long, 8 $\frac{3}{4}$ " high, 11 $\frac{1}{4}$ " wide.... 16.00

Chrome Vanadium - Chromium Plated
Wrench Sets

BLACKHAWK
WRENCHES

The Wal-Set

No. 43VD

HERE'S something new in a wrench set that is unusual and unique. Blackhawk's new Wal-Set, No. 43VD.

It opens up flat displaying a handy assortment of tools, each in its own individual place—at your finger tips when you need them. Mechanics, here's a real set that you will like.

Hang it on the wall—lay it on the bench—stand it on the floor—it's handy any place.

The Wal-Set takes the place of the old tool box with its jumble of wrenches, and offers an efficient, attractive case to display the shiny chromium plated tools.

Two comfortable handles make it easy to carry to and from the job. Sturdy clips hold every tool in place. They are there when you want them.

The Wal-Set contains 43 popular tools in the $\frac{3}{8}$ " and $\frac{1}{2}$ " Square "Lock-On" Drive.

Contents of Set:

Small Series $\frac{3}{8}$ " Square "Lock-On" Drive

Speeder Handle No. 9310S, Hinged Offset No. 9207S, Handle Bar No. 9209S, Extensions No. 9206S and 9210S, Free-wheeling Ratchet No. 9707S, Universal Joint No. 8502S, Screw Driver No. 8552S. Double Hexagon Sockets, $\frac{3}{8}$ " to $\frac{3}{4}$ "; Nos. 7812S, 7814S, 7816S, 7818S, 7820S, 7822S and 7824S.

Standard Series $\frac{1}{2}$ " Square "Lock-On" Drive

Speeder No. 9611, Hinged Offset No. 9208, Handle Bar No. 9209, Obstruction Offset No. 9202, Free-wheeling Ratchet No. 9810, Extensions No. 9206 and 9210, Universal Joint No. 8502, Screw Driver Blade No. 8552, Release Key No. 9004. Double Hexagon Thin Wall Sockets, $\frac{1}{8}$ " to 1"; Nos. 6614, 6616, 6618, 6620, 6622, 6624, 6626, 6628, 6630 and 6632. Double Square Sockets from $\frac{1}{8}$ " to $\frac{3}{8}$ ", Nos. 8114, 8116, 8118 and 8120. Half and Half Box Type Wrenches, $\frac{1}{8}$ " to $\frac{3}{8}$ "; Nos. 15350, 15351, 15352 and 15353.

No.

43VD Wal-Set, Complete in "V" Case List Price \$66.60

"V" Case Only, 21 $\frac{1}{2}$ " high, 13 $\frac{1}{2}$ " wide, 3 $\frac{3}{4}$ " deep. List Price 11.50

"Big Chief" Chest

No. 87WD

Here's the ultimate in wrench sets—the "Big Chief" Chest, No. 87WD. A beautiful assortment of 87 Blackhawk wrenches to handle all repair work, big or small. For mechanics wanting an efficient and complete wrench setup this "Big Chief" Chest can't be beat.

The big sturdy steel case containing the wrenches has a removable tote box tray, three pull drawers, and extra space for additional equipment.

The 87WD contains all the tools of the No. 70RD set plus the ones listed below, packed in W Case.

Contents:

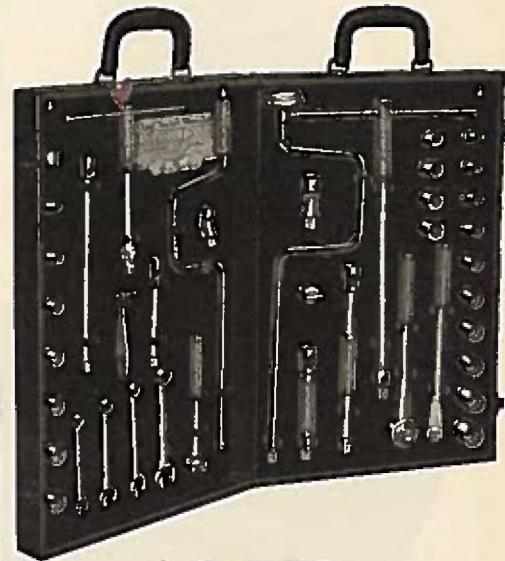
Same as No. 70RD plus:—Heavy Duty Ratchet No. 916N, 1 $\frac{1}{2}$ " Heavy Duty Double Hex Socket No. D52XN; one each Double Offset Box Types (Double Hex) Nos. 15182, 15183, 15184; Open End Wrenches, one each Engineer's, Nos. 1723, 1025, 1027C, 1028S, 1731A and 1033C; two each Tappet Nos. 422, 424 and 426.

No.

87WD Set, Complete List Price \$135.33

W Case Only, 27" long, 12" high, 13" wide List Price 27.00

JB Tote Box Only, 20 $\frac{3}{4}$ " long, 8 $\frac{1}{4}$ " wide, 3" deep List Price 3.00



No. 43VD Set



No. 87WD Set

BLACKHAWK WRENCHES

Chrome Vanadium - Chromium Plated Wrench Sets



No. 27CB Set



No. 30CD Set

The Hot Box

No. 27CB

HOT is the word for this remarkable assortment of wrenches, designed to give the mechanic a representative set of time saving tools.

The "Hot Box" contains a practical working line-up of wrenches—eleven new thin walled straight side sockets—four double square sockets—popular 9810 Free Wheeling Ratchet—three small box-type—and other necessary handles, extensions, and attachments.

Comes packed in a sturdy metal drop-front case.—CB.

This assortment makes a fine beginning for a mechanic to build his tool equipment.

Contents of Set:

One each Speeder No. 9611, "Free Wheeling" Ratchet No. 9810, Hinged Offset No. 9208, Extension Bars No. 9206 and 9260, Handle Bar No. 9209, Universal Joint No. 8502, Screw Driver Blade No. 8552, Release Key No. 9004, Double Hexagon Sockets $\frac{1}{16}$ " to 1", 6614, 6616, 6618, 6620, 6621, 6622, 6624, 6625, 6628, 6630 and 6632. Double Square Sockets from $\frac{1}{16}$ " to $\frac{1}{4}$ ", Nos. 8114, 8116, 8118 and 8120. Box Type Wrenches, $\frac{3}{16}$ - $\frac{1}{2}$ ", $\frac{1}{2}$ - $\frac{5}{8}$ ", $\frac{5}{8}$ - $\frac{11}{16}$ ", Nos. 15176, 15177 and 15178.

No.

27CB Set, Complete List Price \$41.75

CB Case Only, $20\frac{1}{2}$ " long, $8\frac{1}{4}$ " wide, $6\frac{1}{4}$ " high 8.50

The Junior Treasure Chest

No. 45CB

A fuller assortment of tools than is shown in the "Hot Box" No. 27CB above. Includes 45 beautiful chromium plated tools—a full assortment of latest handles and attachments that help make jobs easier and more profitable.

Contents:

Standard Series $\frac{1}{2}$ " Square "Lock-On" Drive
Same as No. 27CB plus the following:—Hinged Universal Speeder No. 9507, Obstruction Offset No. 9202, Handle Bar No. 9209, Double Hex Thin Wall Sockets Nos. 6619, 6625, Double Square Socket No. 8124.

Small Series $\frac{3}{8}$ " Square "Lock-On" Drive

Brace Handle No. 9510S, Hinged Offset No. 9207S, Handle Bar No. 9209S, Extensions Nos. 9206S and 9210S, Universal Joint No. 8502S, Screw Driver No. 8552S, Double Hexagon Sockets, $\frac{1}{16}$ " to $\frac{1}{4}$ ", Nos. 7808S, 7810S, 7812S, 7814S, 7816S, 7818S and 7820S.

No.

45CB, Complete List Price \$64.10

No. 40CB Set

Similar to the No. 45CB but with $\frac{1}{4}$ " heavy duty series in place of $\frac{3}{8}$ " small series tools. For medium and heavy duty repair work.

Contents of Set:

Standard Series $\frac{1}{2}$ " Square Lock-On Drive

Same as No. 45CB Chest.

Heavy Duty Series $\frac{1}{4}$ " Square Lock-On Drive

Sliding T Offset No. T4XN, Extension Bars Nos. T8XN and T17XN, Double Hex Sockets from $1\frac{1}{16}$ " to $1\frac{1}{2}$ ", Nos. D34XN, D36XN, D40XN, D44XN, D46XN, D48XN, D52XN, D56XN and D58XN.

No.

40CB, Complete List Price \$70.15

No. 30CD Set

Demand of mechanics for the best in general automotive wrench assortments has made the No. 30CD the most popular wrench set available. There are 30 units in all, packed tight to make the best looking bunch of tools any mechanic could want to own. Units in this set have standard $\frac{1}{2}$ " Square "Lock-On" Drive.

Contents of Set:

One each standard speeder No. 9611, Brace handle No. 9506, Ratchet handle No. 9811, Hinged offset No. 9208, Handle bar No. 9209, Sliding T and Offset No. 9204, Extension bar No. 9210, Extension bar No. 9206, Universal Joint No. 8502, Drag link and tie rod socket No. 8552, two each Release Tools No. 9004; fourteen Double Hex Sockets from $\frac{3}{16}$ " to 1", Nos. 8412, 8414, 8416, 8418, 8419, 8420, 8422, 8424, 8425, 8426, 8428, 8430, 8431, 8432; and four double square sockets from $\frac{1}{16}$ " to $\frac{1}{4}$ ", Nos. 8114, 8116, 8118, 8120.

No.

30CD Set, Complete List Price \$36.55

Chrome Vanadium-Chromium Plated Wrench Sets

BLACKHAWK WRENCHES

No. 16ND Ignition Set

A COMPLETE new assortment of extra small series socket wrenches, together with five miniature open-end wrenches for delicate work in close quarters. Ideal for repairs on relays, generators, starters, switches and radios; ice machines, oil burners, linotypes and similar precision instruments.

Packed in a convenient metal case N that fits into the pocket easily. It's at your finger-tips when needed.

Contents of Set:

One each Extra Small Series Obstruction Offset No. 1521, Grip Handle No. 1523, Extension Bar No. 1525, six Single Hex Sockets from $\frac{1}{16}$ " to $\frac{11}{16}$ ", Nos. 1506, 1507, 1508, 1509, 1510, 1511 and two Double Hex Sockets $\frac{3}{16}$ " and $\frac{1}{4}$ ", Nos. 1512 and 1514.

5 Miniature open-end wrenches from $\frac{1}{16}$ " to $\frac{11}{16}$ ", Nos. H10, H12, H14, H16 and H18.

No.

16ND Set, Complete List Price \$10.00



No. 16ND Set

No. 11ND — Midget Set

Same as No. 16ND, without Open End Wrenches.

Contents of Set:

One each Extra Small Obstruction Offset No. 1521, Grip Handle No. 1523, Extension Bar No. 1525, six Single Hex Sockets from $\frac{1}{16}$ " to $\frac{11}{16}$ ", Nos. 1506, 1507, 1508, 1509, 1510, 1511 and two Double Hex Sockets $\frac{3}{16}$ " and $\frac{1}{4}$ ", Nos. 1512 and 1514. Packed in metal case "N".

No.

11ND Set, Complete List Price \$7.60



No. 11ND Set

No. 10HD Set

A small service set for precision work on cars, trucks, and buses. Fits universal joints, water pumps, generators, oil pumps, etc. Also ideally adapted to oil burner, refrigerator, and aeroplane service. All units have $\frac{3}{8}$ " square Lock-On drive.

Contents of Set:

One each Offset Handle No. 9201S, Extension Bar No. 9206S, Extension Bar No. 9210S, Handle Bar No. 9209S, and Release Key No. 9004. Five Double Hex Sockets from $\frac{3}{16}$ " to $\frac{3}{4}$ "; Nos. 7812S, 7814S, 7816S, 7818S, and 7820S. Packed in metal case "H".

No.

10HD Set, Complete List Price \$8.70



No. 10HD Set

No. 16QD Set

A new small series set—up-to-the-minute in design and practicability. All sockets are new, thin-wall, straight type for minimum clearance. Includes the new "Free Wheeling" ratchet wrench. Oil burner, refrigerator service men and aeronautical mechanics will welcome the set. All units have $\frac{3}{8}$ " square Lock-On Drive.

Contents of Set:

One each Speeder Handle No. 9510S, "Free Wheeling" ratchet No. 9707S, Extension Bar No. 9206S, Extension Bar No. 9210S, Hinged Offset No. 9207S, Handle Bar No. 9209S, Universal Joint No. 8502S, and Release Key No. 9004. Eight thin-walled sockets from $\frac{1}{16}$ " to $\frac{3}{4}$ ", Nos. 7810S, 7812S, 7814S, 7816S, 7818S, 7820S, 7822S, and 7824S. Packed in metal case "Q".

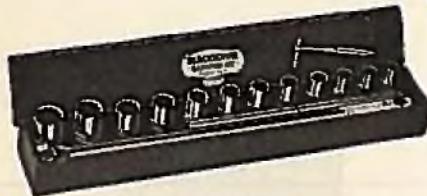
No.

16QD Set, Complete List Price \$21.60



No. 16QD Set

BLACKHAWK WRENCHES



No. 15TD Set



No. 17TD Set



No. 13PD Set



No. 12PD Set

Chrome Vanadium-Chromium Plated Wrench Sets

No. 15TD Set

WITH the increasing demands for thin wall sockets (straight wall type), this new Blackhawk set meets instant acceptance. A very careful selection of sockets and handles offers a practical combination for the mechanic who wants a compact assortment of the most popular wrenches. The new extra strong Blackhawk Thin Wall Sockets sneak into corners otherwise inaccessible.

Contents of Set:

One each Standard Hinged Offset, 18" long No. 9217, Handle Bar No. 9209, Release Key No. 9004, and 12 Double Hex Sockets from $\frac{1}{8}$ " to 1", Nos. 6614, 6616, 6618, 6619, 6620, 6622, 6624, 6625, 6626, 6628, 6630 and 6632.

No. 15TD Set, Complete List Price \$16.45

No. 17TD Set

Every mechanic not equipped with the larger, more complete Blackhawk sets will want this special set of Hinged Offset, Handle bar, release key and 14 of the most popular Double Hexagon socket drives. Units in this set have standard $\frac{3}{4}$ " square Lock-on drive. Packed in metal case T.

Contents of Set:

One each of Standard Hinged Offset 18" long No. 9217, Handle Bar No. 9209 and Release Key No. 9004; and 14 Double Hex Sockets from $\frac{1}{8}$ " to $\frac{1}{2}$ ", Nos. 8412, 8414, 8416, 8418, 8419, 8420, 8422, 8424, 8426, 8428, 8430, 8432, 8434, 8436.

No. 17TD Set, Complete List Price \$16.70

No. 13PD Set

Similar to No. 17TD but with four less tools and in smaller case No. P. Contains one each 9207, 9209, 9004, 8412, 8414, 8416, 8418, 8419, 8420, 8422, 8424, 8428, 8430.

No. 13PD Set, Complete List Price \$10.95

No. 12PD Set

An economical set of twelve pieces containing only the most essential tools for ordinary repairs. Its cost is low, but gives the mechanic a fine quality assortment. Packed in a compact metal case—it's handy to carry on the job. Units have $\frac{3}{4}$ " square Lock-On Drive.

Contents of Set:

One each Sliding Offset No. 9204, Ratchet Handle No. 9511, Extension Bar No. 9206, Extension Bar No. 9260, and Release Key No. 9004. Seven Double Hex Sockets from $\frac{1}{8}$ " to $\frac{1}{2}$ ", Nos. 8414, 8416, 8418, 8420, 8422, 8424, and 8426. Packed in metal case "P".

No. 12PD Set, Complete List Price \$13.60

Chrome Vanadium - Chromium Plated Wrench Sets

BLACKHAWK WRENCHES

No. 12SD — Heavy Duty Set

MECHANICS in truck and bus shops will welcome this handy set of heavy duty wrenches. You'll find a ready market for this set wherever powerful heavy duty tools are used. No chance of sockets slipping. All units have $\frac{3}{4}$ " sq. Lock-on drive. Set packed in handy metal case S.

Contents of Set:

One each Heavy Duty Hinged Offset Handle No. 9207XN, Handle Bar 18" long No. 9209XN, Release Key No. 9004. Nine Double Hexagon Heavy Duty Sockets from 1" to $1\frac{1}{2}$ ", Nos. D32XN, D34XN, D36XN, D40XN, D42XN, D44XN, D46XN, D48XN, D52XN.

No.
12SD Set, Complete List Price \$22.75



No. 12SD Set

14BD Heavy Duty Set

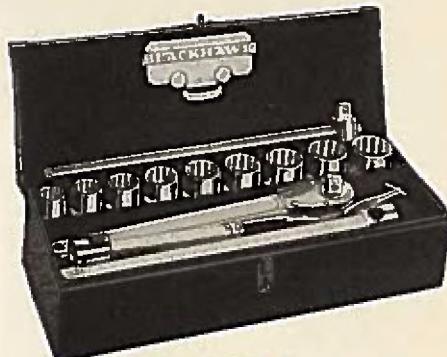
These powerful heavy duty handles and sockets are just the tools needed on repair and assembly of trucks, tractor, combines, farm and power machinery, graders, pavers and other machine units. No chance of socket slipping from handle end for all units in this set have $\frac{3}{4}$ " square Lock-on drive.

All sockets double Hexagon. Contained in husky steel case, No. CA.

Contents of Set:

One each Heavy Duty Ratchet Handle No. 916N, Sliding Offset No. T4XN, Extension Bar No. T17XN, Extension Bar No. T8XN and Release Tool No. 9004; also nine Double Hexagon Sockets from 1" to $1\frac{1}{2}$ ", Nos. D32XN, D34XN, D36XN, D40XN, D42XN, D44XN, D46XN, D48XN, and D52XN.

No.
14BD Set, Complete List Price \$33.25



No. 14BD Set

No. 12ED — Extra Heavy Duty Set

No nut or bolt too tough for this set. An industrial service and maintenance set designed to provide greatest strength and utility.

Wrenches in this set have built-in "Lock-On" feature—no release key necessary. Thumb or finger pressure quickly releases socket. This feature is a guarantee against injury from socket slipping off. Handles have $\frac{1}{8}$ " sq. lock-on drive—all sockets double Hexagon, equipped with thumb release.

This set finished in cadmium.

Contents of Set:

One each Extra Heavy Duty Ratchet No. 920, Extension Bars Nos. T8XX and T17XX, Sliding Bar No. T4XX, Offset Adaptor and head for bar No. T40XX. Seven Extra Heavy Duty Double Hexagon Sockets from $1\frac{1}{4}$ " to $2\frac{1}{2}$ ", Nos. D40XX, D46XX, D52XX, D58XX, D64XX, D70XX, D76XX. Packed in metal case CA.

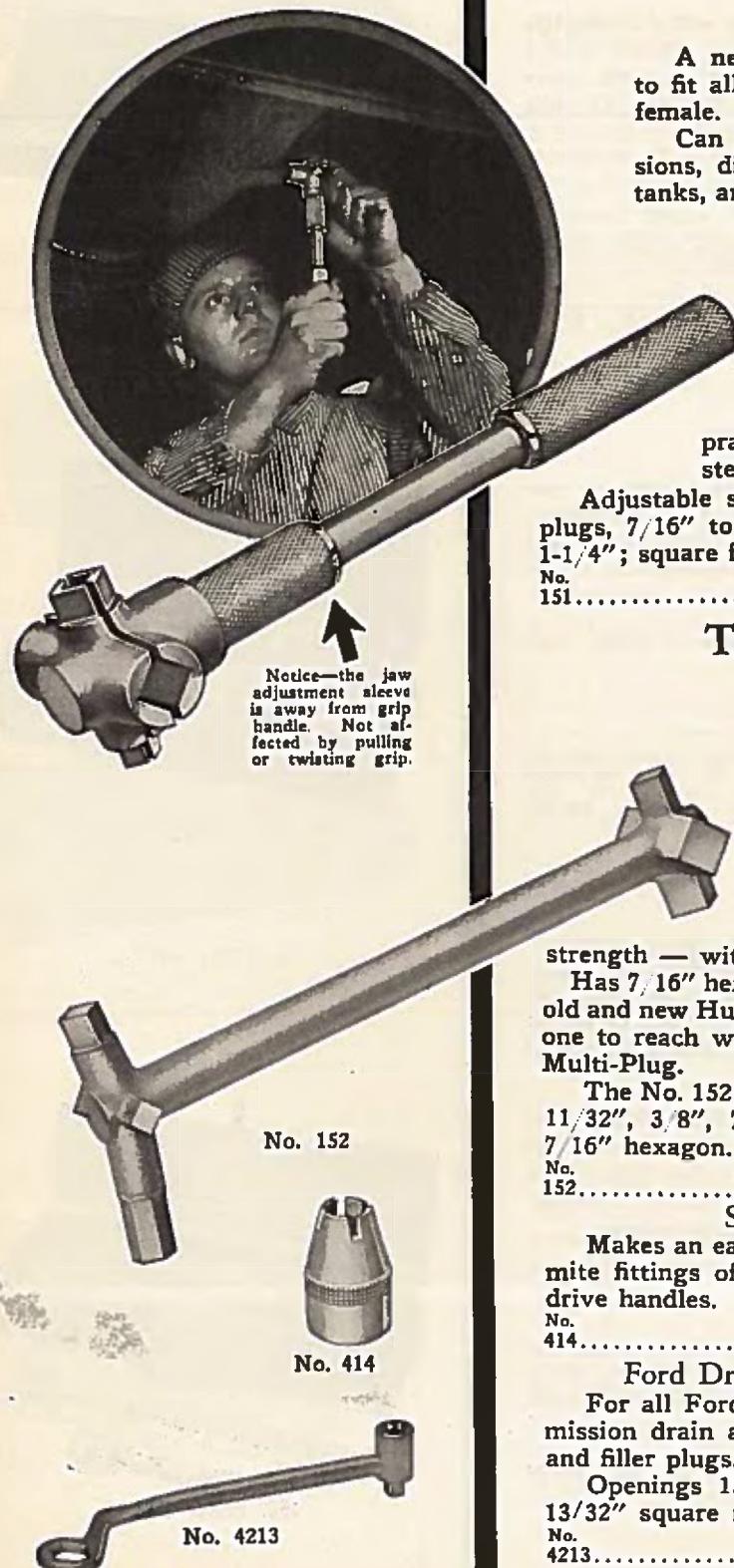
No.
12ED Set, Complete List Price \$65.30



No. 12ED Set

BLACKHAWK WRENCHES

Chrome Vanadium-Cadmium Plated
Lubrication Service Tools



The "Adjusto"

No. 151

A new lubrication service tool adjustable to fit all drain plugs, square or hex, male or female.

Can be used universally on all transmissions, differentials, shock absorbers, gasoline tanks, and vacuum tank drain and filler plugs.

It's new and unique — jaws are adjusted by a twist of the thumb on knurled sleeve — not the handle grip as with ordinary drain plug wrenches. Jaw adjustment is not affected by pulling or twisting the grip.

Comfortable, knurled grip — practical length 9" — chrome vanadium steel — cadmium plated.

Adjustable sockets and plugs to fit — hex male plugs, 7/16" to 1-1/2"; square male plugs, 3/16" to 1-1/4"; square female openings, 5/16" to 1".

No. 151.....List Price, \$3.75

The "Multi-Plug"

No. 152

A one-piece lubrication service tool — handy and compact — to fit practically all female plugs on every car.

It's a dandy — built to sneak into odd places — it sure does the job in short order.

Length, 8"—forged of chrome nickel steel — heat treated for strength — with cadmium plated finish.

Has 7/16" hexagon lug and 11/32" square to fit both old and new Hudson Essex clutch drain plugs—a mean one to reach with ordinary tools, but a snap for the Multi-Plug.

The No. 152 has the following sized plugs — 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 5/8" square, and 7/16" hexagon.

No. 152.....List Price, \$2.00

Special Alemite Socket

Makes an easy job of installing and removing Alemite fittings of all kinds. Fits standard 1/2" square drive handles.

No. 414.....List Price, \$0.45

Ford Drain and Filler Plug Wrench

For all Ford Cars. Fits motor drain plug, transmission drain and filler plugs, and differential drain and filler plugs.

Openings 15/16" hex, 9/16" double square, and 13/32" square male plug.

No. 4213.....List Price, \$1.60

THE "Lock-On" FEATURE

—Only on **BLACKHAWK**
WRENCHES

Saves Time

Swells Earnings

For Modern Mechanics

"Lock-On", Blackhawk's patented feature, makes interchangeable handles and sockets stay together like solid wrenches.

The handy release key releases the union in a jiffy.

On ordinary jobs in open places, when "Lock-On" is not necessary, sockets and handles may be held firmly by the conventional friction method.

Blackhawk wrench life is longer because constant use does not effect the sturdy plunger as it does the ordinary friction ball.

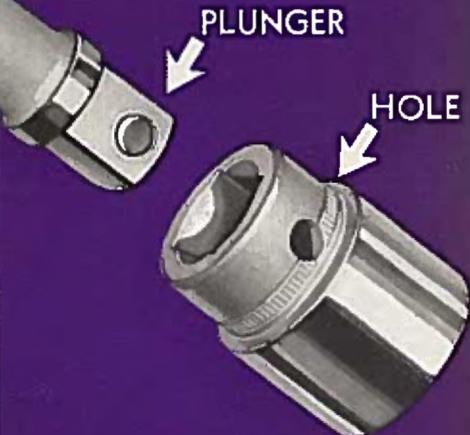
"Lock-On" will positively hold heavy industrial sockets solidly to the handle—ordinary friction ball will not because of the weight of the socket.

"Lock-On" sockets won't fly off when working fast or shake loose in tight places. Ideal for use on power nut setters.

"Locked-On" sockets cannot pull off the handle when they get stuck on burred or over-sized nuts—greasy pockets or tight quarters.

No "Locked-On" wrenches can drop in your face when working under a car or on your toes while at the bench.

See inside pages for more details.



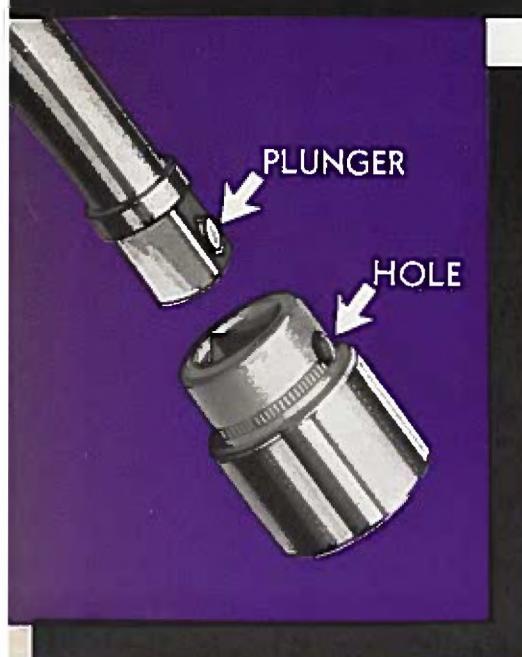
U. S. Patent No. 1,927,844.

19,287 1,982,008

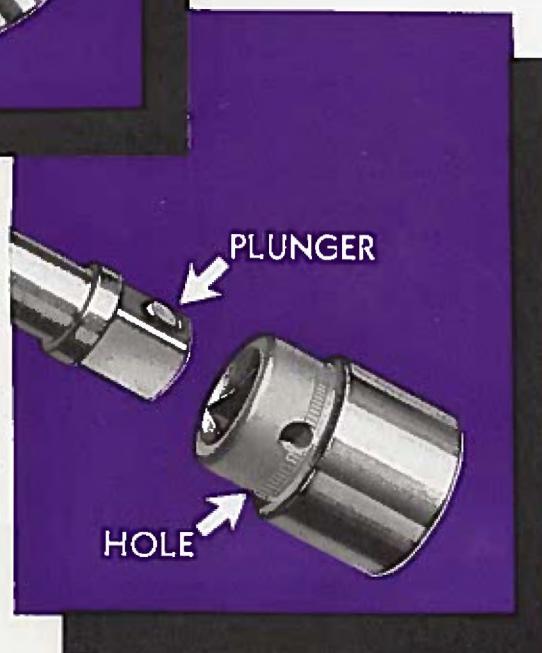
Others Pending

How "Lock-On" OPERATES

See how easy it is!



TO LOCK THE SOCKET ON HANDLE. Simply line up hole in socket wall with plunger in square drive on handle, as shown at the left—slip on and it can't come off until released. Socket and handle fit snugly, plunger in hole, and socket end to shoulder. Only Blackhawk wrenches have patented "Lock-On" feature.



Note that spring backed plunger is set at an angle for easy engagement with sockets or attachments of any make, whether square socket end is chamfered or not.

TO USE WITHOUT "LOCK-ON". Slip socket on to square drive so that hole in socket is not in line with plunger in square drive. This means that three sides of socket are for frictional attachment and fourth side for "Lock-On" only. Sockets and attachments pull apart easily for quick change.

TO RELEASE THE SOCKETS. Insert "Lock-On" Release Key in hole in socket wall—depress plunger and pull off socket. Remember to push down before pulling.

In the Extra Heavy Duty series the "Lock-On" is constructed with a release button in the socket wall. To release, depress button with thumb and pull off socket.



It's easy to make COMBINATIONS

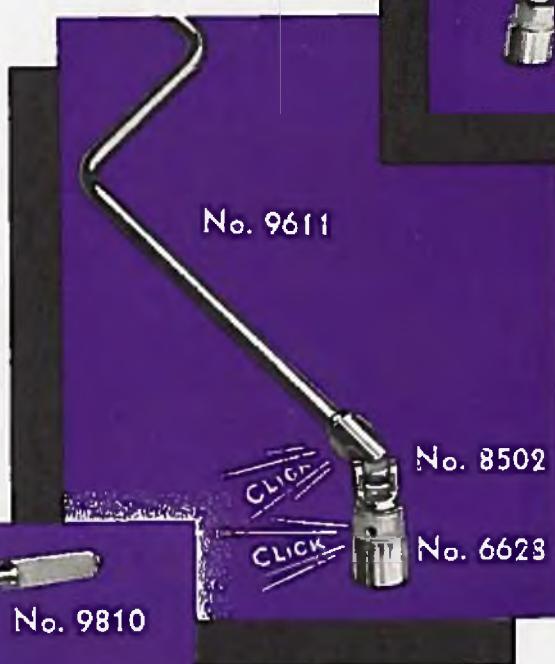
And They Stay Put!

Listen to the "click" as you put them together. Here's an ordinary connection of a socket, extension and hinged offset (note numbers). Blackhawk "Locked-On" joints are practical—they can't come apart until you release them.

No lost time or bad tempers chasing sockets or attachments that have slipped off.

A Speeder, Universal Joint and Socket is a very common combination. Mighty handy for going 'round corners or doing speedy work on top—at side—or underneath a motor.

With "Lock-On" speed and confidence combine to do better, faster work. Without "Lock-On" caution must always be observed not to disengage the joints.



These solidly joined convenient combinations become separate units at will—unlocking with handy release tool in jig time.

Another popular combination! The "Free Wheeling" Ratchet for limited swing — the long extension for depth work — the socket for gripping the nut or bolt — and "Lock-On" to make the three stay solidly together for more efficient operation.

Mechanics accept the Blackhawk "Lock-On" as the greatest improvement in wrench design since sockets and handles were made interchangeable.

No. 9207

No. 9206

CLICK

No. 9611

No. 8502

CLICK

No. 6628

CLICK

No. 9810

No. 9260

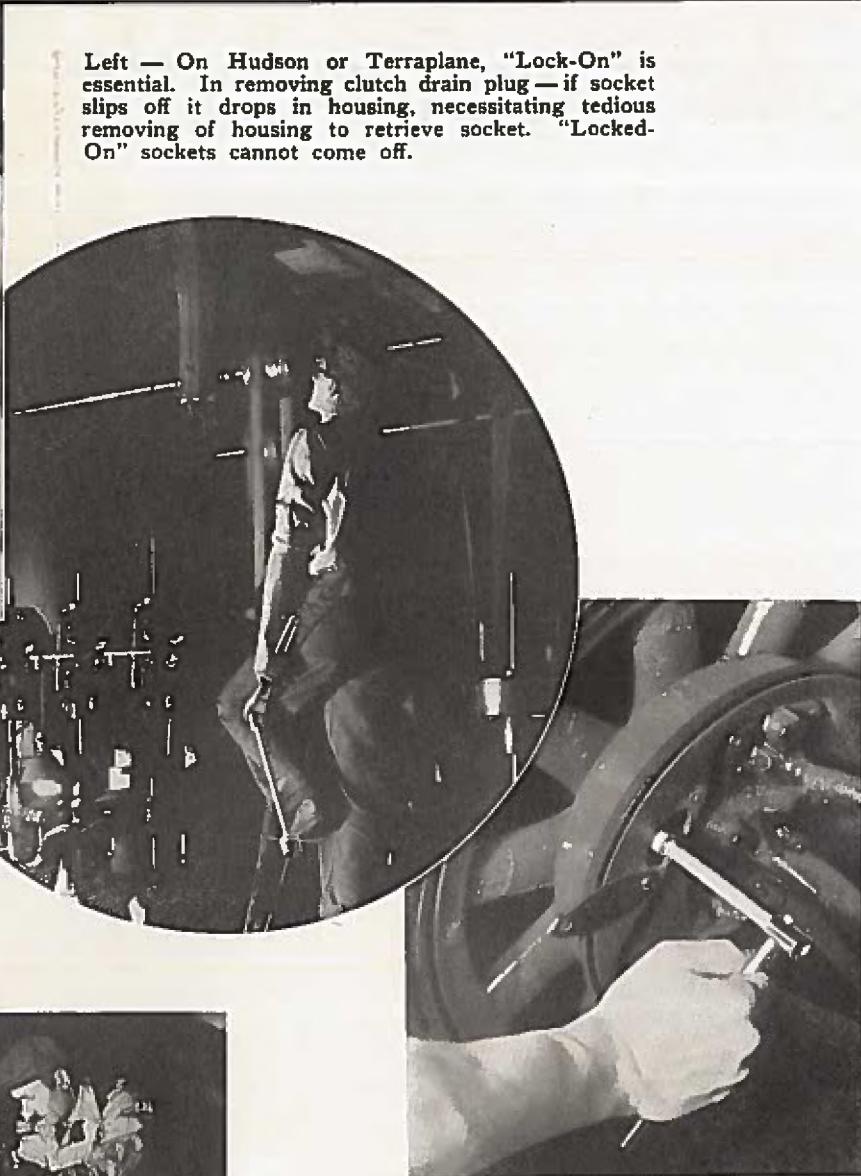
CLICK

No.
6632

"Lock-On" Saves Time In Tricky Places



Left — On Hudson or Terraplane, "Lock-On" is essential. In removing clutch drain plug—if socket slips off it drops in housing, necessitating tedious removing of housing to retrieve socket. "Locked-On" sockets cannot come off.



Millwrights are taking to "Lock-On", particularly for overhead work. No chance for sockets to come apart—drop into running machinery or injure workmen. Combinations stay put.



Here's another job for "Lock-On". There is no chance for a Blackhawk socket to stick or drop into housing when adjusting Steel-draulic brakes.

Indispensable for aeroplane work, where adjustments are made while motors are hot. "Locked-On" combinations can't come apart. For work between the hot cylinders, this feature saves burnt hands—and time.

Selected Steel-Cadmium Plated Stock Cabinet Assortment

COMES the wonderful new cadmium plated line — the best quality wrenches in the low price field that money can buy. All newly developed by Blackhawk.

Material is a special analysis steel — double heat-treated — tough — wear-resisting and long-lived.

Finish — bright — extra heavy coated cadmium — which is rustproof and very attractive.

Priced to meet the times in line with Blackhawk quality—but so inexpensive as to stifle competition.

Cabinet in a sales-compelling steel counter display for convenience in stocking and sales promotion.

No. 20C Stock Cabinet Assortment

A real merchandiser of socket wrenches, beautifully lithographed in three colors — red, black and yellow. Convenient drawers with compartments labeled in front showing the contents for stocking sockets and attachments.

This attractive display contains a practical assortment of the popular, inexpensive handles and sockets in the cadmium line. Large car dealers, accessory stores, and hardware dealers will welcome this assortment as a real profit maker.

Size $19\frac{3}{4}$ " high, $16\frac{1}{4}$ " wide and $8\frac{3}{4}$ " deep.

Contents of No. 20C Cabinet

No.	Quan.	No.	Quan.	No.	Quan.
T1	2	D14	3	D30	2
T2	2	D16	4	D31	1
T4	3	D18	4	D32	2
T5	3	D19	2	012	2
T6	3	D20	6	014	2
T10	3	D21	2	016	2
T13	2	D22	3	018	3
110X	3	D24	4	020	2
500	3	D25	1	022	2
911X	2	D26	2	024	2
3310	3	D28	2		

No.
20C Cabinet, containing 82 tools.....\$49.85

BLACKHAWK WRENCHES



No. 20C Cabinet

A powerful sales-builder is this attention-getting display. A fine assortment of new Cadmium Plated wrenches is effectively flashed before the eyes of every prospective tool buyer.

The assortment is complete --- consisting of every wrench needed for thorough servicing.

Ideal for assembling unit sets for specialized repairs or car-owner use.

Effectively located, this cabinet will bring profitable sales to you and your dealers.

BLACKHAWK WRENCHES

Selected Steel-Cadmium Plated Wrench Sets



No. 38CB Set

No. 38CB Set

A COMPLETE set of thirty-eight (38) wrenches in the $\frac{1}{2}$ " cadmium plated series. There's a wrench in this set to handle the majority of repair jobs on all cars, trucks and other equipment.

Its low price and completeness appeal to the mechanic who needs an all around set, but cannot afford the finer chromium plated line.

All the tools are cadmium plated — a new, attractive and rust-proof finish. Contained in the standard CB case — praised by every mechanic for its compactness and portability.

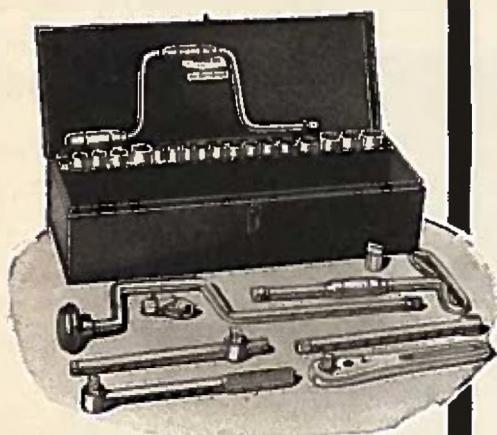
Nickeled name-plate with mechanic's name engraved will be furnished at a small cost of 25c. Adds a note of individuality and brands it as his own property.

Contents of Set:

One each Speeder No. 610, Offset Handle No. 110X, Ratchet Wrench No. 911X, Brace Handle No. 500, Tee Handle No. 3310, Extensions Nos. T6 and T10, Universal Joint No. T2, Sliding Tee Offset No. T4, Drag Link Socket No. T1, Double Hexagon Sockets from $\frac{1}{8}$ " to $1\frac{1}{4}$ ", Nos. D14, D16, D18, D19, D20, D21, D22, D24, D25, D26, D28, D30, D31, D32, D34, D36 and D40. Double Square Sockets from $\frac{3}{8}$ " to $\frac{3}{4}$ ", Nos. 012, 014, 016, 018, 020.

Spark Plug Wrenches Nos. 3327, 3329, 3731 and Handle No. 3750. Double Hex Box Type Wrenches, $\frac{3}{8}$ " to $\frac{1}{2}$ ", Nos. 15176, 15177, 15178.

No.
38CB Set—Complete List Price \$33.80



No. 29CD Set

No. 29CD Set

Mechanics demand a set of this kind for general service work. An assortment of twenty-nine wrenches in the $\frac{1}{2}$ " square drive series. Contains a useful set-up of tools to do a 100% repair job on passenger cars of all kinds. Packed in a sturdy steel case that keeps the tools in their places and on hand when needed. Easily portable — take it right to the job.

All wrenches finished in the new, enduring cadmium plate.

Contents of Set

One each Speeder No. 610, Brace Handle No. 500, Ratchet Wrench No. 911X, Sliding Tee Offset No. T4, Extension Bars Nos. T6 and T10, Tee Handle No. 3310, Universal Joint No. T2, Offset Handle No. 110X, Drag Link and Tie Rod Socket No. T1. Double Hexagon Sockets from $\frac{1}{8}$ " to 1", Nos. D14, D16, D18, D19, D20, D22, D24, D25, D26, D28, D30, D31, D32, Double Square Sockets from $\frac{3}{8}$ " to $\frac{3}{4}$ ", Nos. 012, 014, 016, 018, 020, 024.

No.
29CD Set—Complete List Price \$22.80

Selected Steel-Cadmium Plated Wrench Sets

BLACKHAWK WRENCHES

No. 11PD Set

HERE'S a small set of sockets, handles and extensions in the $\frac{1}{2}$ " square drive series that mechanics will welcome. Fits in to increase the efficiency of their present tool equipment. Sell this to mechanics not ready to buy the larger assortment, and use it as a nucleus for building up their equipment.

It's low in price, and has universal appeal. Finished in attractive cadmium plating. Packed in metal "P" Case.

Contents of Set

One each Ratchet Wrench No. 911X, Sliding Tee Offset No. T4, Extension Bars Nos. T6 and T10, Double Hexagon Sockets from $\frac{1}{2}$ " to $\frac{1}{4}$ ", Nos. D14, D16, D18, D20, D22, D24, D28.

No. 11PD Set—Complete List Price \$8.50



No. 11PD

No. 19AD Set

Intermediate assortment of wrenches in the $\frac{1}{2}$ " square drive series for mechanics who need a practical set-up of tools, but cannot afford a larger, more complete assortment. It will handle a wide variety of repair work on most cars.

Packed in a sturdy steel case "CA" with compartments to keep sockets and handles in place.

Contents of Set

One each Brace Handle No. 500, Tee Handle No. 3310, Ratchet Wrench No. 911X, Sliding Tee Offset No. T4, Offset Handle No. T5, Extension Bars Nos. T6 and T10, Universal Joint No. T2, Double Hexagon Sockets from $\frac{1}{2}$ " to $\frac{1}{4}$ ", Nos. D14, D16, D18, D19, D20, D21, D22, D24, D25, D26, D28.

No. 19AD Set—Complete List Price \$17.10



No. 19AD

No. 150 "Hexet" Set

Here's a set you can be proud to sell every one of your dealers. The "Hexet" No. 150 set contains six hexagon sockets and one combination offset and extension handle packed in shiny black steel case. $\frac{1}{2}$ " hexagon drive.

All sockets properly heat-treated. An ideal set for the man who loves to tinker around his car. Note the attractive display counter for dealers — holds 6 sets — and make sales easy.

No. 150 "Hexet" Set Contains:

One each Offset Handle 7 $\frac{1}{4}$ " long, Hexagon Sockets $\frac{1}{2}$ ", $\frac{5}{8}$ ", $\frac{3}{4}$ ", $\frac{11}{16}$ ", $\frac{3}{8}$ " and $\frac{1}{4}$ ". ($\frac{1}{2}$ " Hexagon Drive).

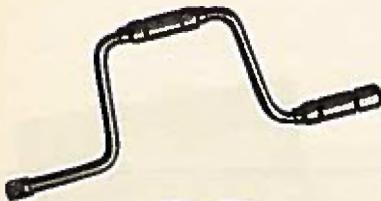
No. 150 "Hexet" Set List Price \$1.25



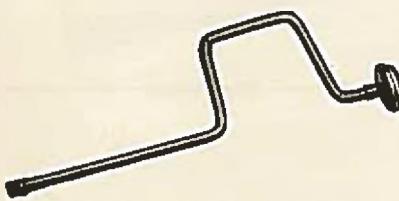
No. 150 "Hexet" Set

BLACKHAWK WRENCHES

Selected Steel - Cadmium Plated
Handles



No. 500



No. 610



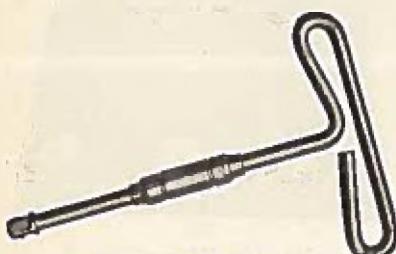
No. 110X



No. T5



No. T4



No. 3310

Brace Handle

A NUT TWISTER that puts pep and power in every job. Has wide sweep and revolving grips at center and end. Every mechanic needs it.

No.	Stock Dia.	Length	Shank Length	Sweep	Square Drive	List Price
500	1/2"	15 1/4"	4 1/4"	4 1/4"	1/4"	\$1.10

Speeder

Long shank, comfortable revolving grip and efficient sweep. The speediest of speeders. Saves time on all repair jobs.

610	5/8"	19"	11"	4 1/4"	5/8"	\$1.35
-----	------	-----	-----	--------	------	--------

Offset Handle

A sturdy nut fighter that thrives on tough nuts of all kinds. Built for power — and can give it. Comfortable knurled grip saves your hands, and stays with you on hard pulls.

No.	Stock Dia.	Length	Square Drive	List Price
110X	5/8"	10 1/2"	5/8"	\$1.00

Double End Offset

Does tricks on both ends — each equipped with 1/2" square drive. Makes either a long or short L offset. Handy as you'll find, and "on-the-job" wherever it may be.

T-5	5/8"	3 x 10"	5/8"	\$0.75
-----	------	---------	------	--------

Sliding Tee

The mechanic's pal — does a thousand and one tasks, making the tough going easy. Handle slides freely through socket head. Use it with an extension to make either a T or L Handle.

T-4	5/8"	10 1/4"	5/8"	\$0.90
-----	------	---------	------	--------

Tee Handle

A fast and furious nut twister — the mechanic's favorite wrench. Swivel grip and 7 1/4" handle speeds it up. It's a time saver — important these days.

3310	13/16"	12"	7 1/4"	\$1.00
------	--------	-----	--------	--------

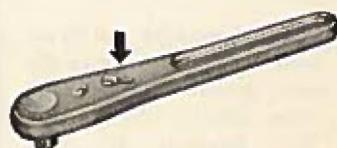
Selected Steel - Cadmium Plated
Handles and Attachments

BLACKHAWK WRENCHES

Ratchet Wrench

FOR fast action in close quarters — and long leverage to jerk nuts loose or set them home. And two new features — instantly reversed by flipping lever conveniently located on top of handle. Not necessary to remove socket nor shift lug. And number of teeth increased from 14 to 18 giving smoother action and shorter bites in close quarters.

No.	Length	Square Drive	List Price
911X	10"	5/8"	\$2.75



No. 911X

Replacement Drive Lugs for Ratchets

No.	Square Drive	For Use With	List Price
T13	5/8"	Old 911X	\$0.35
T13X	3/4"	915	.70



Nos. T6—T10

Extension Bars

No mechanic's kit is complete without these bars. They reach down in where regular handles fall short. Two useful lengths — 6" and 10".

No.	Stock Dia.	Length	Square Drive	List Price
T6	5/8"	6"	5/8"	\$0.75
T10	3/4"	10"	5/8"	.90



No. T2

Universal Joints

SHOULD be in every mechanic's kit. These Universal Joints are sturdily made and give full 90° angle.

No.	Series	Male End	Square Drive	List Price
T2	Standard	3/4" sq.	5/8" sq.	\$1.65



No. T1

Tie Rod and Screw Driver Attachment

For ordinary car work, 5/8" Square Drive. Size of blade 10" x 1".

No. T1—.....List Price \$0.50



No. T7X Series

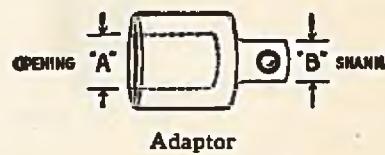
Adaptors

Provide an inexpensive means of increasing or decreasing square shank size to accommodate various square socket openings.

Adaptor Number	Square Opening "A"	Used on Handles to	Square Shank "B"	List Price
T7X	5/8"	Increase to	3/4"	\$0.90
T9X	3/4"	Increase to	5/8"	.85
T7	3/4"	Decrease to	5/8"	.90
T9	3/4"	Decrease to	5/8"	.85
*T013X	5/8"	Decrease to	5/8"	1.20
*T013XX	5/8"	Decrease to	5/8"	1.40

*Ratchet drive adaptors.

Nos. T013X
T013XX



Adaptor

BLACKHAWK WRENCHES

Selected Steel - Cadmium Plated Sockets

To determine socket size—last two figures in each socket number indicates size in 32nds of an inch. Example: No. D14 indicates 14/32" or 7/16".

No. D14 Series



No. 14Z



No. 012 Series



Nos. 3327-3329-3731
Complete with Handle



No. 710 Series

BUILT to stand the gaff. Proper taper, depth, and thickness of wall in each socket to take the fight out of the toughest nut. You can find the socket for every need on this or the following page.

Standard Series Double Hexagon Sockets

1/2" Square Drive

Socket No.	Socket Size, in.	List Price	Socket No.	Socket Size, in.	List Price
D14	7/16	.35	D26	11/16	.40
D16	13/16	.35	D28	7/8	.40
D18	15/16	.35	D30	13/16	.50
D19	17/16	.35	D31	1 1/16	.50
D20	19/16	.35	D32	1	.50
D21	21/16	.35	D34	1 1/16	.55
D22	23/16	.35	D36	1 1/8	.60
D24	25/16	.40	D40	1 1/4	.65
D25	27/16	.40			

Double Hex Socket Set

1/2" Square Drive

No. 14Z contains fourteen double hexagon (12 point) sockets packed in fibre box. One each of all Nos. from D14 to D32 — 7/16" to 1".

No. 14Z—Set in fibre box List Price \$5.55

Standard Series Square Sockets

1/2" Square Drive

Socket No.	Socket Size, in.	List Price	Socket No.	Socket Size, in.	List Price
012	5/16	.35	025	7/16	.45
014	13/32	.35	026	11/16	.45
016	15/32	.35	028	13/16	.45
018	17/32	.35	030	1 1/16	.55
019	19/32	.35	032	1	.55
020	21/32	.35	034	1 1/16	.65
022	23/32	.45	040	1 1/4	.70
024	25/32	.45			

Spark Plug Sockets

No. 3327—For all 1/2" hexagon spark plugs—including handle..... \$0.60
No. 3329—For all 1/4" and 1" hexagon spark plugs—including handle.. .60
No. 3731—For all 1/2" and 1 1/4" hexagon spark plugs—including handle .60

Square Drain Plugs

1/2" Square Drive

Complete series to fit all female drain plugs on transmissions, oil pans, differentials, shock absorbers, etc.

Part No.	Size Plug	List Price	Part No.	Size Plug	List Price
710	1/8" Sq.	\$0.35	718	1/8" Sq.	\$0.35
712	3/16" Sq.	.35	720	5/16" Sq.	.35
714	1/4" Sq.	.35	724	3/4" Sq.	.35
716	1/2" Sq.	.35			

Selected Steel-Cadmium Plated
Tire Service Tools.
For Service Stations, Garages and Car Owners

BLACKHAWK
WRENCHES



Telescopic
Hub Cap and Rim Wrench

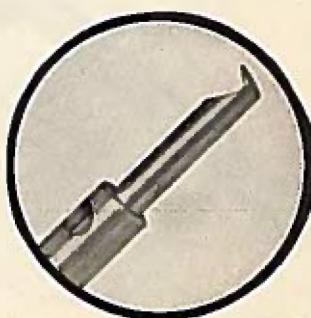
A CLEVER new car-owner wrench designed for speed, leverage, and convenience. Compact in construction with a detachable cross bar that fits into the hollow handle when not in use. Spring-backed ball in middle of cross bar holds it in place and prevents rattling. Takes up little room under the seat or in the tool box.

One end of handle has special design for removing hub caps (see close-up view) — a handy feature.

Made with the most popular sized opening — $\frac{3}{4}$ " Hex. Overall length of shank and handle, each 9".

No.

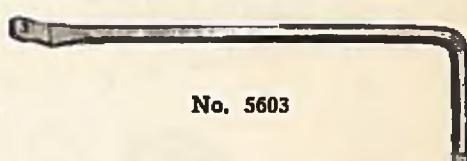
5524—Complete. List price \$0.95



Above shows cross bar nested in shank of wrench. Whole wrench takes only 11" x 1" space when not in use.



No. 5220 Series



No. 5603

Car Owner Rim Wrenches

No.	Socket Size	Stock Dia.	Shank Length	Sweep	List Price
5220	$\frac{5}{16}$ "	$\frac{3}{16}$ "	$5\frac{1}{4}$ "	$4\frac{1}{8}$ "	\$0.50
5222	$\frac{11}{16}$ "	$\frac{3}{16}$ "	$5\frac{1}{4}$ "	$4\frac{1}{8}$ "	.50
5224	$\frac{3}{4}$ "	$\frac{3}{16}$ "	$5\frac{1}{4}$ "	$4\frac{1}{8}$ "	.50
5226	$\frac{13}{16}$ "	$\frac{3}{16}$ "	$5\frac{1}{4}$ "	$4\frac{1}{8}$ "	.50
5228	$\frac{7}{8}$ "	$\frac{3}{16}$ "	$5\frac{1}{4}$ "	$4\frac{1}{8}$ "	.50

Kelsey-Hayes and C. W. C. Rim Tools

Indispensable in the tire shop — a time and labor saver. Diameter of handle, $\frac{5}{16}$ "; length, 20"; C. W. C. End Offset, $4\frac{1}{4}$ " with $\frac{1}{8} \times \frac{1}{8}$ " shank. K-H End has $\frac{3}{8}$ " oversized square opening for easy fit.

No.

5603—List Price, each \$1.50

Tire Valve Stem Wrenches

Handy double offset box-types. Slotted ends slip easily over curved stems. Thin walls for close clearance.

No.

2794—Openings $\frac{3}{4}$ " & $\frac{11}{16}$ " (See Page 34) List Price \$1.50

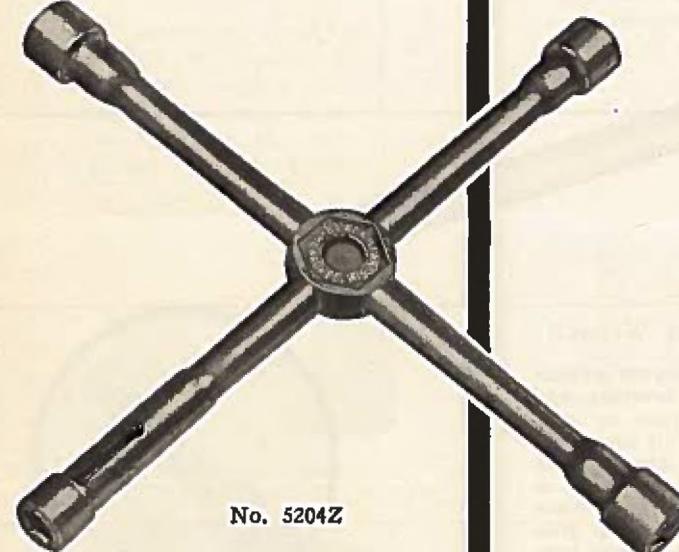
2795—Openings $\frac{3}{4}$ " & $\frac{7}{8}$ " (See Page 34) List Price 1.50



Nos. 2794 and 2795

BLACKHAWK WRENCHES

Selected Steel-Cadmium Plated
Tire Service Tools
For Service Stations and Garages



No. 5204Z



Here's how the hub cap puller on the 5204Z and 5524 operates. Simply fit edge behind cap—and pull. Screw driver doesn't fit because of deeply recessed hub cap.



No. 5104

New Cross-Type Rim Wrench with Hub Cap Puller

HERE'S a new universal cross type rim wrench that makes easy work of removing nuts on all tire changes. Extra deep socket construction (see illustration Page 29) takes all nuts, even with extended bolts.

Bell-shaped sockets sneak in where rim nuts are close to the hub wall.

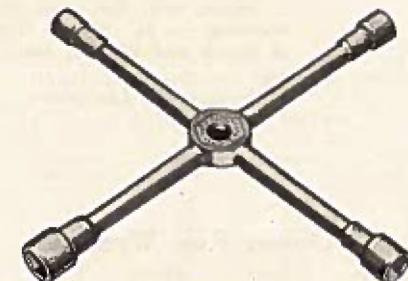
One socket has built-in spring-backed hub cap puller that slides out easily when released by pressing button (see illustration). When not in use, plunger is pushed in and locked, permitting use of the socket.

Wrench is 14½" overall — plenty of length for leverage. Diameter of handle 5/8" — depth of sockets 1 5/8".

Socket sizes, 5/8", 3/4", 11/16" and 7/8" Hexagon.

No. 5204Z List price, \$4.00

Standard Cross-Type Wrench



No. 5204X—The master of all rim nut jobs. Equipped with extra deep sockets to get both nuts on tire carriers. Will handle any rim nut job whether wood, disc, or wire wheels. Put one of these in the hands of a prospect and the sale is made. Special over all length of 14½" gives all the clearance needed. Diameter of handle 5/8" — Depth of sockets 1 5/8".

Socket Sizes 5/8" — 3/4" — 13/16" — 7/8" Hexagon

No. 5204X List price, \$3.25

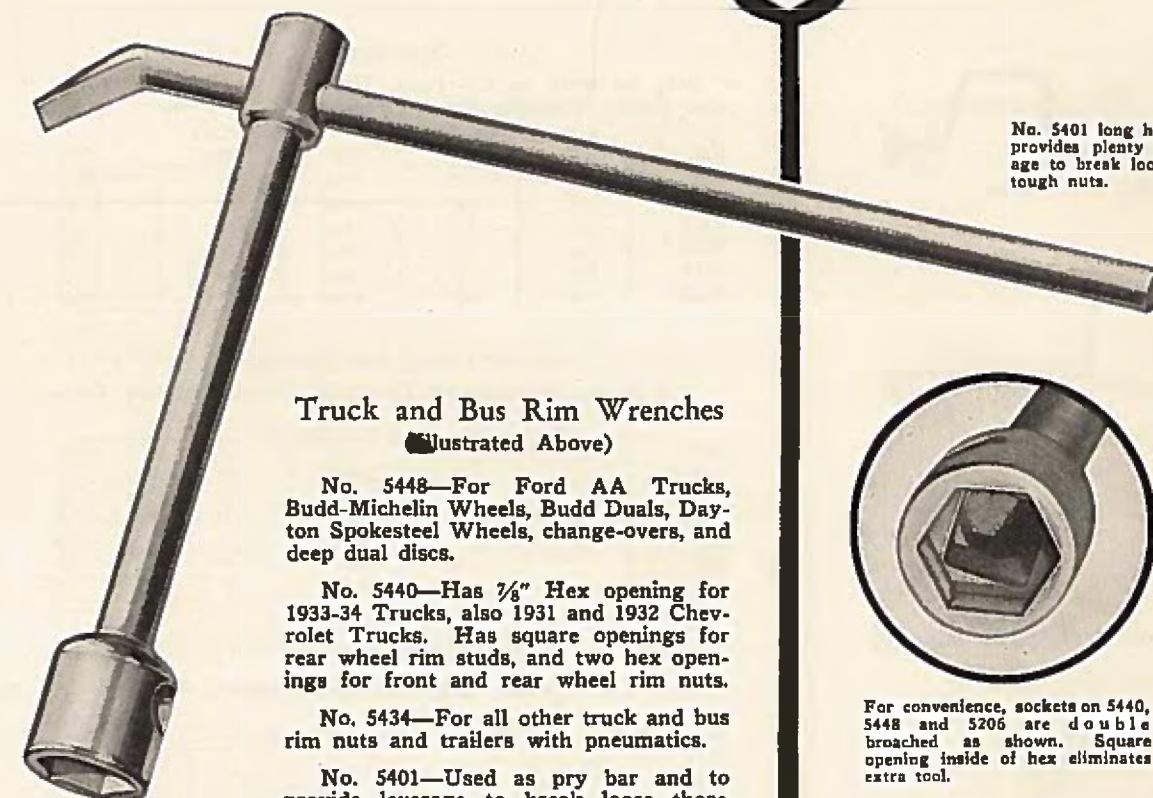
Universal Rim Wrench

No. 5104—This heavy duty service tool has quadruple drop-forged sockets. Sockets revolve in patented head — locked securely in place by simply snapping wrench head back on handle end. Desired socket in place instantly. Can be used for leverage as well as speed — built to stand severe strain.

Socket Sizes 5/8" — 11/16" — 3/4" — 7/8" Hexagon

No. 5104 List price, \$2.75

Selected Steel-Cadmium Plated
Tire Service Tools
For Trucks and Buses



Truck and Bus Rim Wrenches (Illustrated Above)

No. 5448—For Ford AA Trucks, Budd-Michelin Wheels, Budd Duals, Dayton Spokesteel Wheels, change-overs, and deep dual discs.

No. 5440—Has 7/8" Hex opening for 1933-34 Trucks, also 1931 and 1932 Chevrolet Trucks. Has square openings for rear wheel rim studs, and two hex openings for front and rear wheel rim nuts.

No. 5434—For all other truck and bus rim nuts and trailers with pneumatics.

No. 5401—Used as pry bar and to provide leverage to break loose those frozen nuts.

No.	Socket Sizes	Stock Dia.	Length	List Price
*5448	11/16" Sq., 1 1/4" & 1 5/8" Hex	5/8"	14 1/2"	\$3.00
*5440	5/8" Sq., 7/8" & 1 1/4" Hex	7/8"	14 1/2"	2.60
*5434	1 1/8" & 1 1/4" Hex	7/8"	14 1/2"	2.15
5401	Pry Bar only	7/8"	20"	1.40

*Does not include No. 5401 Pry Bar.

Universal Truck Rim Wrench (Cross Type with 6 Socket Sizes)

A RIM tool that will handle 90% of all truck rim nuts, including latest model Ford and Chevrolet Trucks. A powerful tool, 3/4" dia. shanks with an over all length of 23". Equipped with hole through center for use of No. 5401 pry bar to provide added leverage.

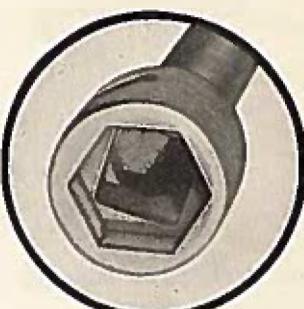
Socket sizes—7/8", 1 1/8", 1 1/4", 1 1/2" Hexagon, 5/8" and 11/16" Square.

Back of 1 1/4" Hex socket is broached 11/16" square for Model AA Ford and Budd-Michelin Rims. Back of 5/8" Hex socket is 5/8" square for 1931-32 Chevrolet Truck rims.

No. 5206 Without No. 5401 Pry Bar List Price, \$8.00
No. 5401 Pry Bar List Price, 1.40

BLACKHAWK WRENCHES

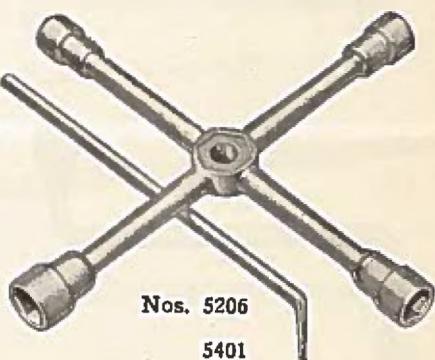
No. 5401 long handle bar provides plenty of leverage to break loose or set tough nuts.



For convenience, sockets on 5440, 5448 and 5206 are double broached as shown. Square opening inside of hex eliminates extra tool.



Sockets of 5204X, 5204Z and 5206 are bell-shaped with extra deep broach as shown. Plenty of room to take long bolts on tire carriers, etc.



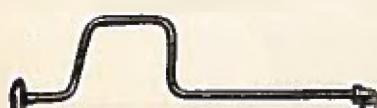
Nos. 5206
5401

BLACKHAWK WRENCHES

Selected Steel - Cadmium Plated
Solid Type Wrenches



No. 6114 Series



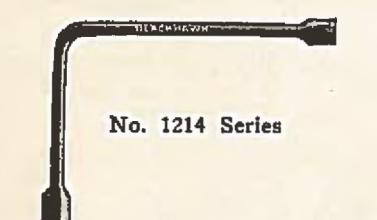
No. 616 Series



No. 3114 Series



No. 516 Series



No. 1214 Series



No. 2214 Series

Speeders

Snap up work on Oil Pans, Timing Gears and Transmission Covers, Cylinder Head Screws, Rim Nuts, etc.

No.	Socket Size	Stock Dia.	Length	Shank Length	Price
6114	1/8"	1/4"	19 3/8"	11"	\$0.75
6116	3/16"	1/4"	19 3/8"	11"	.75
6118	1/4"	1/4"	19 3/8"	11"	.75
6120	5/16"	1/4"	19 3/8"	11"	.75
6124	3/8"	1/4"	19 3/8"	11"	.75
6128	7/16"	1/4"	19 3/8"	11"	.75

Universal Joint Speeders

For Intake and Exhaust Manifolds, Starting Motors, Generator Mounts, etc.

No.	Size	Hex. Socket	Stock Dia.	Length	Price
616	5/8"	1/2"	20 5/8"	12"	\$0.95
618	11/16"	1/2"	20 5/8"	12"	.95
620	3/4"	1/2"	20 5/8"	12"	.95
622	11/8"	1/2"	20 5/8"	12"	.95
624	7/8"	1/2"	20 5/8"	12"	.95
626	15/16"	1/2"	20 5/8"	12"	.95
628	13/16"	1/2"	20 5/8"	12"	.95

Long Tees

Indispensable for special jobs.

No.	Size	Hex. Socket	Stock Dia.	Length	Price
3114	1/8"	1/4"	1/4"	12"	\$0.50
3116	3/16"	1/4"	1/4"	12"	.50
3118	1/4"	1/4"	1/4"	12"	.50
3120	5/16"	1/4"	1/4"	12"	.50
3122	3/8"	1/4"	1/4"	12"	.50
3124	7/16"	1/4"	1/4"	12"	.50

Universal Joint Tees

A dandy for Waterpump Mounting, Fender and Body Bolts, etc.

No.	Size	Hex. Socket	Stock Dia.	Length	Price
516	5/8"	1/2"	1/2"	12"	\$0.95
518	11/16"	1/2"	1/2"	12"	.90
520	3/4"	1/2"	1/2"	12"	.90
524	7/8"	1/2"	1/2"	12"	.90

L Type Wrenches

A double purpose wrench every mechanic needs. It goes after 'em.

No.	Size	Hex. Socket	Stock Dia.	Length	Price
1214	1/8"-3/8"	1/4"	1/4"	7"x10"	\$0.65
1216	3/16"-1/2"	1/4"	1/4"	7"x10"	.65
1218	1/4"-5/8"	1/4"	1/4"	7"x10"	.65
1220	5/16"-1 1/8"	1/4"	1/4"	7"x10"	.65
1224L	3/4"-7/8"	1/4"	1/4"	7"x10"	.65

Z Type Wrenches

Mechanics need this where the going is tough.

No.	Size	Hex. Socket	Stock Dia.	Length	Price
2214	1/8"-3/8"	1/4"	1/4"	10"	\$0.65
2216	3/16"-1/2"	1/4"	1/4"	10"	.65
2218	1/4"-5/8"	1/4"	1/4"	10"	.65
2220	5/16"-1 1/8"	1/4"	1/4"	10"	.65
2224	3/4"-7/8"	1/4"	1/4"	10"	.65

Selected Steel - Cadmium Plated
Solid Type Wrenches

BLACKHAWK
WRENCHES

Single Socket Offsets

Handy for close quarters — has a hundred uses.

No.	Hexagon Socket Sizes	Stock Dia.	Length	Price
1114	1/8"	1/2"	7"	\$0.45
1116	3/16"	1/2"	7"	.45
1118	1/4"	1/2"	7"	.45
1120	5/16"	1/2"	7"	.45
1122	3/8"	1/2"	7"	.45
1124	7/16"	1/2"	7"	.45
1125	1/2"	1/2"	7"	.45
1128	9/16"	1/2"	7"	.45



No. 1114 Series

Curved Handle—Offset

No.	Double Hex Sizes	Stock Dia.	Length	Price
1318	7/16"	3/8"	6 1/4"	.45



No. 1318

Hammer Head Wrenches

Double socket offset — strong and powerful. All popular openings.

No.	Hexagon Socket Sizes	Stock Dia.	Length	Price
1416	1/8"- 1/2"	1/8"	6"	\$0.60
1618	3/16"- 1/2"	3/8"	6 3/4"	.60
1820	1/4"- 5/8"	1/2"	7 1/2"	.60
4218	7/16"- 3/4"	5/8"	10"	.75
2422	5/16"- 11/16"	1/2"	9 1/4"	.75
2830	7/16"- 10"	5/8"	10 3/4"	.75
3432	1"- 1 1/8"	5/8"	12 1/4"	.95
3640	1 1/8"- 1 1/4"	1 1/8"	13"	.95



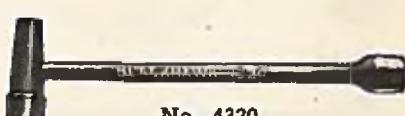
No. 1416 Series

Triple Socket Offsets

No. 4320—Handy for Fords, Chevrolets and Pontiacs.

No. 4330—Can't be beat for spring shackles, spring clip nuts, steering assemblies, etc.

No.	Hexagon Socket Sizes	Stock Dia.	Length	Price
4320	1/2"- 5/8"- 5/8"	1/2"	10"	\$0.65
4330	11/16"- 7/8"- 11/16"	1 1/8"	12 1/2"	.75



No. 4320

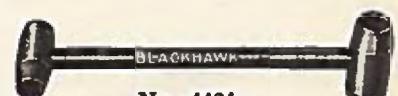


No. 4330

Quadruple Socket Offset

A stout fellow with four popular openings. Handy around any kind of car or machinery.

No.	Hexagon Socket Sizes	Stock Dia.	Length	Price
4424	1/2"- 7/8"- 1 1/8"- 3/4"	1 1/8"	10 1/4"	\$0.95



No. 4424

BLACKHAWK WRENCHES

Special Wrenches For Fords



No. 6618F



No. 8563XN



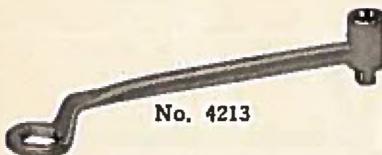
No. 8565



No. 4002A



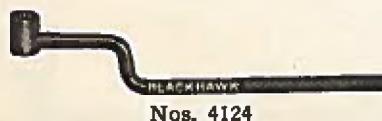
No. 2545



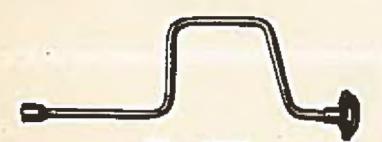
No. 4213



No. 4014X



Nos. 4124
4018



No. 4316



No. 4021

V8 Connecting Rod Socket
SPECIAL thin wall socket with 9/16" double hex opening. 1 1/2" Square Lock-On Drive. Chromium plated. Because of extreme thinness necessary the 6618F is NOT guaranteed.

No. 6618F—List Price \$0.75

Special Fan Pulley Socket

Fits A, B, and 18. Fan pulley and starting jaw nut can be removed without dismounting radiator. 3/4" square drive plus slotted drive for use with crank handle. 1 3/4" double Hex opening. Chromium plated.

No. 8563XN—List Price \$1.25

Valve Grinder Attachment

No. 4002A—List Price \$0.40

Main Bearing Bolt Holder for V-8

U-shaped handle with two "Lock-On" sockets, 7/8" double square for holding main bearing bolts while nuts are adjusted. Because of extreme thinness necessary in sockets, they are not guaranteed against breakage. Chrome vanadium steel — chromium plated.

No. 8118F—Sockets. List Price Each \$0.85

8564—U-Handle. List Price 1.10

8565—Complete Tool with handle and two sockets. List Price 2.80

Water Pump Spanner

Used on packing nuts on models A, AA, B and AAB.

No. 2545—List Price \$1.00

Drain and Filler Plug Wrench

For motor drain plugs, transmission drain and filler plugs, and differential drain and filler plugs. Openings—1 1/2" hex, 7/8" double square, and 1 1/2" male square plug. Overall length 10".

No. 4213—List Price \$1.60

Brake Adjusting Wrench

Double Square openings 7/8" and 1 1/2". Used on all model Ford cars and trucks.

No. 4014X—Cadmium finish. List Price \$1.10

Main Bearing Wrenches

No. 4124—For models A, AA, B, AAB, and 18. Has 3/4" Hex opening. Cadmium finish. List Price \$1.00

No. 4018—For front and center bearings on models T, A, AA, B and AAB. 7/8" square opening. Cadmium finish. List Price \$1.00

Oil Pan Wrench

Speeder type with 1 1/2" hex opening. For models A, AA, B, AAB, & 18.

No. 4316—Cadmium finish. List Price \$1.00

Cylinder and Spark Plug Wrench

For models A, AA, B, AAB, and 18. Has 1 1/4" and 1 1/2" hex openings.

No. 4236—Cadmium finish. List price \$0.70

Connecting Rod Wrench

For models A, AA, B, and AAB. Has 1 1/2" Hex opening.

No. 4021—Cadmium finish. List Price \$0.75

Spark Plug Sockets

No. 3731—For all model Ford cars and trucks.

3731—Sizes 1 1/2"-1 3/4" Pressed Steel Socket including handle. List Price \$0.60

8936—Chromium plated, 1 3/4" Double Hex. 1/2" Square Lock-On Drive. List Price 1.75

8932—Same as above. 1" Double Hex. List Price 1.55

Truck Rear Axle Nut Socket

For rear axle nuts on models AA and AAB Trucks. 1 1/2" Double Hex opening—1 1/2" Square Lock-On Drive. Chromium plated.

No. D58XN—List Price \$2.50

Special Wrenches For Chevrolets

BLACKHAWK WRENCHES

Brake Adjusting Socket

HAS special socket opening to adjust brakes on four cylinder Chevrolets. 1/2" square drive. Cadmium finish.

No. 412—List Price each \$0.35



No. 412

Oil Pan Socket

Screw driver socket to fit all Chevrolet oil pans. 3/8" square lock-on drive. Chromium finish.

No. 8513S—List Price each \$1.10



No. 8513S



No. 8926
8932

Spark Plug Wrenches

A complete series at all prices to fit spark plugs on all models.

For 1932 Models

No. 8932—1" opening. 3/8" square Drive. Chromium plated. List Price... \$1.55

3329—1" opening. Pressed steel. Cadmium plated. List Price... .60

For 1933, 1934 & 1935 Models

8926—1 1/2" opening. 3/8" sq. Lock-On Drive. Chromium Plated. List Price 1.40

3327—1 1/2" opening. Pressed steel. Cadmium plated. List Price... .60

Rear Axle Nut Sockets

Make easy work of removing and setting the rear axle nut — a tough job without a socket of this kind.

All the following sockets have the 3/4" square Lock-On Drive.

For 1932 Model Cars

No. D38XN—1 1/2" opening. List Price \$1.15

For 1931 Model Cars

D34XN—1 1/2" opening. List Price 1.15

For 1928-29 Trucks

D46XN—1 1/2" opening. List Price 1.55

For 1930 Trucks

D48XN—1 1/2" opening. List Price 1.55

For 1931-32-33 Trucks

D58XN—1 1/2" opening. List Price 2.50

For 1934 & 1935 Trucks

D64XN—2" opening. List Price 3.00



No. D38XN Series

Steering Column Adjustment Spanner

Here's a wrench for quick adjustment on all six cylinder steering columns.

No. 2545—List Price \$1.00



No. 2545

Water Pump Wrench

For all six cylinder models.

No. 1232A—1 1/2" opening. List Price \$1.35



No. 1232A

Main Bearing Wrenches

For 1933, 1934 & 1935 Model Cars

Every mechanic needs this special wrench to sneak in on the main bearing bolts. Sockets are long with thin walls to reach deeply recessed bearing caps.

No. 2676—Opening 1 1/2" and 3/4". Length 14 1/4". List Price..... \$2.60

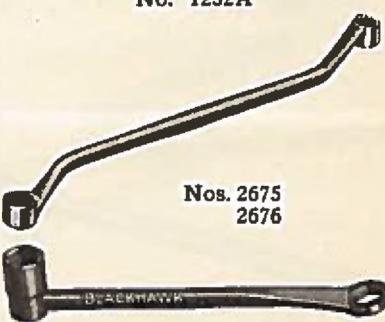
For Previous 6 Cylinder Models

2675—Opening 3/4" and 3/4". Length 14 1/4". List Price..... \$2.60

For Four Cylinder Cars

Here's a wrench with 1 1/2" opening on the box end and 3/4" on the socket end that's a dandy for main bearings on the four cylinder "Chevie". Offset just right to do the job in short order.

No. 4926—List Price \$1.60



Nos. 2675
2676

No. 4926

BLACKHAWK WRENCHES

Chrome Vanadium - Chromium Plated Box Type Wrenches



No. 2780 Series



No. 2612 Series



No. 2912 Series



No. 2018



No. 2336 Series



Tubular Handles for Stub Ends

NOTE their comfortable grip — accurate balance — lightness — toughness — clean broach — slim heads to get into small quarters and over or under obstructions.

Double Offset — Short

No.	Socket Openings	Length	Price	No.	Socket Opening	Length	List Price
2780	$\frac{3}{8}'' \times \frac{7}{16}''$	$4\frac{1}{2}''$	\$0.80	2782	$\frac{1}{2}'' \times \frac{3}{8}''$	$6''$	\$1.00
2781	$\frac{1}{2}'' \times \frac{7}{16}''$	$5\frac{1}{4}''$	.90	2784	$\frac{1}{2}'' \times \frac{3}{4}''$	$7\frac{1}{2}''$	1.40

* For tire valve and battery work.

Double Offset — Long

2612	$\frac{3}{8}'' \times \frac{7}{16}''$	$7\frac{1}{8}''$	\$0.85	2624	$\frac{3}{4}'' \times \frac{13}{16}''$	$12''$	\$1.35
2616	$\frac{1}{2}'' \times \frac{7}{16}''$	$9\frac{1}{8}''$	.95	2625	$\frac{3}{4}'' \times \frac{13}{16}''$	$12\frac{1}{4}''$	1.35
2619	$\frac{1}{2}'' \times \frac{11}{16}''$	$10\frac{1}{8}''$	1.15	2628	$\frac{3}{8}'' \times \frac{13}{16}''$	$14''$	1.65
2620	$\frac{3}{8}'' \times \frac{11}{16}''$	$10\frac{1}{8}''$	1.15	2630	$\frac{3}{8}'' \times 1\frac{1}{16}''$	$16\frac{1}{4}''$	2.80
*2675	$\frac{1}{2}'' \times \frac{3}{4}''$	$14\frac{1}{2}''$	2.60	2632	$1'' \times 1\frac{1}{16}''$	$16\frac{1}{4}''$	2.80
*2676	$\frac{1}{2}'' \times \frac{3}{4}''$	$14\frac{1}{2}''$	2.60	2636	$\frac{1}{2}'' \times 1\frac{1}{4}''$	$16\frac{1}{4}''$	3.60

*Special thin wall design to fit Chevrolet main bearings. See page 33.

Single Offset — Long

Same size double hexagon socket openings at each end.

2912	$\frac{3}{8}''$	$7\frac{3}{8}''$	\$1.30	2922	$\frac{1}{2}''$	$10\frac{5}{8}''$	\$1.70
2914	$\frac{1}{2}''$	$8\frac{1}{8}''$	1.35	2924	$\frac{3}{4}''$	$11\frac{5}{8}''$	1.80
2916	$\frac{1}{2}''$	$8\frac{1}{4}''$	1.40	2925	$\frac{1}{2}''$	$12\frac{1}{4}''$	1.90
2918	$\frac{1}{2}''$	$9\frac{3}{8}''$	1.50	2926	$\frac{1}{2}''$	$12\frac{3}{4}''$	1.90
2919	$\frac{1}{2}''$	$9\frac{1}{2}''$	1.60	2928	$\frac{1}{2}''$	$13\frac{1}{8}''$	2.10
2920	$\frac{3}{8}''$	$9\frac{1}{2}''$	1.60	2930	$\frac{1}{2}''$	$14\frac{3}{8}''$	2.30

Battery Wrench Cadmium Plated

For battery terminals, starters, generators, etc.

2018	$\frac{1}{2}'' \times \frac{5}{8}''$	6"	\$0.80
------	--------------------------------------	----	--------

Stub End Box Type Wrenches

Cadmium Plated

Part No.	Size Opening Double Hex.	Use Tubular Handle No.	List Price	Part No.	Size Opening Double Hex.	Use Tubular Handle No.	List Price
2336	$1\frac{1}{8}''$	2304	\$3.35	2350	$1\frac{1}{8}''$	2306	\$6.00
2340	$1\frac{1}{4}''$	2304	3.35	2352	$1\frac{1}{8}''$	2308	7.25
2342	$1\frac{5}{8}''$	2304	3.35	2356	$1\frac{1}{4}''$	2308	7.60
2344	$1\frac{3}{4}''$	2306	5.60	2358	$1\frac{1}{8}''$	2308	7.75
2346	$1\frac{1}{8}''$	2306	5.60	2364	2"	2308	9.00
2348	$1\frac{1}{2}''$	2306	6.00				

Shank diameter of each wrench is same as inside diameter of recommended tubular handle.

Tubular Handles For Above

Cadmium Plated

Part No.	Handle Length	Assembled Overall Length	Outside Dia.	Inside Dia.	List Price
2304	18"	24"	$\frac{1}{8}''$	$\frac{1}{2}''$	\$2.90
2306	24"	35"	$1\frac{1}{8}''$	$\frac{5}{8}''$	4.60
2308	30"	41"	$1\frac{1}{4}''$	1"	6.25

Chrome Vanadium-Chromium Plated Brake Wrenches and Sets

BLACKHAWK WRENCHES

Brake Wrench Sets

NO MECHANIC can resist this fine complete set of brake tools to service every car. Fourteen wrenches of all types packed in a sturdy metal case. Take it right on the job — every tool is there, and ready to do its job. It contains one each Nos. 2534, 2537A, 2526B, 2526, 2526A, 426, 2561, 1731BR, 1034BR, 1735BR, 4014X, 2103, 2581, and 2583.

No.

37S — Complete, in metal case. List Price.....\$33.25

37CB — Complete, in cardboard box. List Price.....30.50

Smaller set than above. Contains one each Nos. 2526, 2534, 2535, 2536, 2537, 2538, 2539, 2541, 2542.

No.

35CB — Complete, in cardboard box. List Price\$13.55

35LR — Complete, in leatherette roll. List Price15.05

Steel-Draulic Brake Pliers

No.

2581 — Fits all Steel-Draulic Brakes. Overall length 5 $\frac{1}{4}$ ". List Price \$2.25

Brake Spring Pliers

No.

2583 — For removing and replacing internal brake springs. Length 12 $\frac{1}{2}$ ". List Price\$2.95

For General Brake Servicing

No.	Opening in 22 $\frac{1}{2}$ " End, In.	Opening in 60° End, In.	Length, In.	Applica- tion	List Price
2526	$\frac{5}{8}$	$\frac{5}{8}$	6 $\frac{1}{4}$	Lockheed	\$1.40
2526A	$\frac{7}{8}$	$\frac{7}{8}$	6 $\frac{1}{4}$	General	1.40
2526B	$\frac{11}{16}$	$\frac{11}{16}$	6 $\frac{1}{4}$	General	1.40
2537	$\frac{3}{4}$	$\frac{3}{4}$	6 $\frac{1}{4}$	La Salle	1.40
2537A	$\frac{7}{8}$	$\frac{7}{8}$	6 $\frac{1}{4}$	External Mechanical	1.40
2538	$\frac{9}{16}$	$\frac{9}{16}$	6 $\frac{1}{4}$	La Salle	1.40

Chrysler Cars

No.	Opening	Length	Thickness	List Price
2534	$\frac{1}{4}$ "	3 $\frac{1}{2}$ "	$\frac{1}{2}$ "	\$0.90

Chevrolet

2542	$\frac{3}{4}$ "- $\frac{3}{4}$ "	7 $\frac{1}{2}$ "	$\frac{1}{2}$ "	\$1.50
------	----------------------------------	-------------------	-----------------	--------

Bendix Brakes

2539	$\frac{1}{4}$ "- $\frac{1}{2}$ "- $\frac{3}{4}$ "	7"	$\frac{1}{2}$ "	\$1.80
------	---	----	-----------------	--------

For Eccentric Cam on Bendix Internal

2561	$\frac{1}{2}$ "- $\frac{1}{4}$ "	9"	$\frac{1}{2}$ "	\$1.80
2561-A	$\frac{1}{2}$ "- $\frac{3}{4}$ "	9"	$\frac{1}{2}$ "	1.80

Dodge

2535	$\frac{1}{2}$ "	9"	$\frac{1}{2}$ "	\$1.50
------	-----------------	----	-----------------	--------

Cadillac, La Salle, Etc.

426	$\frac{1}{4}$ "- $\frac{1}{2}$ "	9"	$\frac{1}{2}$ "	\$0.90
-----	----------------------------------	----	-----------------	--------

Studebaker Cars

2536	$\frac{1}{4}$ "	4 $\frac{1}{2}$ "	$\frac{1}{2}$ "	\$1.25
2541	$\frac{1}{2}$ "	10"	$\frac{1}{2}$ "	2.40

Specials

Special wrenches for Lockheed, Hydraulics, Bendix, and other mechanical brakes.

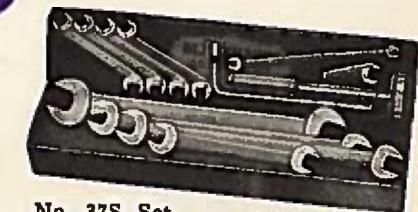
1731BR	$\frac{1}{4}$ "- $\frac{7}{8}$ "	15"	$\frac{1}{2}$ "	\$3.75
1034BR	$\frac{1}{8}$ "- $\frac{17}{16}$ "	16"	$\frac{1}{2}$ "	5.00
1735BR	1"- $1\frac{1}{4}$ "	16"	$\frac{1}{2}$ "	5.00

Ford (Cadmium Finish)

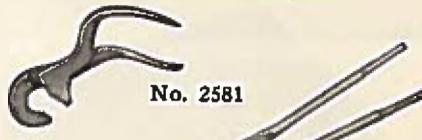
4014X	$\frac{1}{8}$ "- $\frac{1}{2}$ " Double Sq.	9 $\frac{1}{2}$ "		\$1.10
-------	--	-------------------	--	--------

Bendix and Steeldraulic Internal

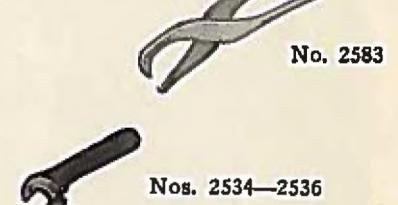
2103	$\frac{1}{8}$ " Hex	9"	2 $\frac{1}{2}$ " Offset	\$1.25
------	---------------------	----	--------------------------	--------



No. 37S Set
Including Nos. 2581 & 2583



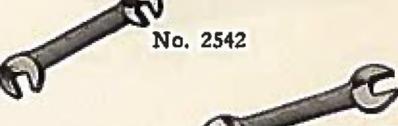
No. 2581



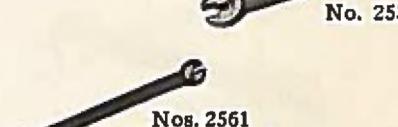
No. 2583



Nos. 2534-2536



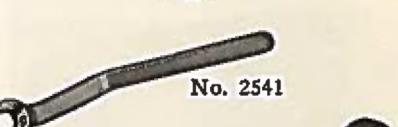
No. 2539



Nos. 2561
2561-A



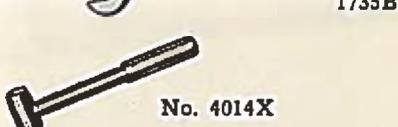
No. 2535



No. 2541



Nos. 1731BR
1034BR
1735BR



No. 4014X



No. 2103

BLACKHAWK ARMSTRONG



Engineer's Wrenches



No. 26LR Set



Obstruction Wrenches



No. 2005LR Set

Chrome Vanadium-Chromium Plated Open-End Wrenches and Sets

Engineer's Wrenches

HANDY wherever there's a tough nut to turn on cars — trucks — tractors — farm implements — or industrial equipment. Tough as only chrome vanadium can make them.

Number	Openings Inches	Length Inches	Thickness Heads Inches	List Price
1020	1/4 & 5/16	3	1/8	\$0.45
1721	5/16 & 11/16	5 1/2	1/8	.50
1021	5/16 & 11/16	5 1/2	1/8	.50
1722	5/16 & 11/16	5 1/2	1/8	.50
1723	5/16 & 11/16	5 1/2	1/8	.50
1022	5/16 & 11/16	6	1/8	.60
1023	5/16 & 11/16	6	1/8	.60
1723A	5/16 & 11/16	6	1/8	.60
1024	5/16 & 11/16	6 1/2	1/8	.70
1725	5/16 & 11/16	6 1/2	1/8	.70
1725A	5/16 & 11/16	6 1/2	1/8	.70
1725B	5/16 & 11/16	6 1/2	1/8	.70
1025	5/16 & 11/16	6 1/2	1/8	.70
1726	5/16 & 11/16	7	1/8	.85
1026	5/16 & 11/16	7	1/8	.85
1727	5/16 & 11/16	7	1/8	.85
1027	5/16 & 11/16	7	1/8	.85
1027C	5/16 & 11/16	7	1/8	1.05
1728	5/16 & 11/16	8	1/8	1.05
1028	5/16 & 11/16	8	1/8	1.05
1028S	5/16 & 11/16	8	1/8	1.05
1729	5/16 & 11/16	8	1/8	1.05
1029	5/16 & 11/16	8	1/8	1.05
1030	5/16 & 11/16	9 1/2	1/8	1.40
1731	5/16 & 11/16	9 1/2	1/8	1.40
1731A	5/16 & 11/16	9 1/2	1/8	1.40
1031	5/16 & 11/16	9 1/2	1/8	1.40
1731B	5/16 & 11/16	9 1/2	1/8	1.40
1032	5/16 & 11/16	9 1/2	1/8	1.40
1033A	5/16 & 11/16	9 1/2	1/8	1.40
1033	5/16 & 11/16	9 1/2	1/8	1.40
1733	5/16 & 1 1/8	10 1/2	1/8	1.90
1033C	5/16 & 1 1/8	10 1/2	1/8	1.90
1034	5/16 & 1 1/8	10 1/2	1/8	1.90
1734	5/16 & 1 1/8	10 1/2	1/8	1.90
1035	5/16 & 1 1/8	10 1/2	1/8	1.90
1735	5/16 & 1 1/8	12 1/2	1/8	2.65
1036	5/16 & 1 1/8	12 1/2	1/8	2.65
1736	5/16 & 1 1/8	12 1/2	1/8	2.65
1037	5/16 & 1 1/8	12 1/2	1/8	2.65
1737	5/16 & 1 1/8	12 1/2	1/8	2.65

Engineer's Wrench Sets

Contain one each Nos. 1723, 1025, 1027C, 1028S, 1731A and 1033C.
No. 26CB— In Cardboard Box List Price \$6.40
No. 26LR— In Leatherette Roll List Price 7.25

Obstruction Wrenches

Have openings on same side. Sneak into hard-to-get-places, and do the job where others fail. Openings at 85° angle.

Number	Openings Inches	Length Inches	Thickness Heads Inches	List Price
2721	5/16 & 9/16	4 1/2	1/8	\$0.50
2021	5/16 & 9/16	4 1/2	1/8	.50
2722	5/16 & 9/16	4 1/2	1/8	.50
2123	5/16 & 9/16	4 1/2	1/8	.60
2022	5/16 & 9/16	4 1/2	1/8	.60
2023	5/16 & 9/16	4 1/2	1/8	.60
2723A	5/16 & 9/16	4 1/2	1/8	.60
2024	5/16 & 9/16	5 1/2	1/8	.70
2725	5/16 & 9/16	5 1/2	1/8	.70
2725A	5/16 & 9/16	5 1/2	1/8	.70
2725B	5/16 & 9/16	5 1/2	1/8	.70
2025	5/16 & 9/16	5 1/2	1/8	.70
2726	5/16 & 9/16	6 1/2	1/8	.85
2026	5/16 & 9/16	6 1/2	1/8	.85
2727	5/16 & 9/16	6 1/2	1/8	.85
2027	5/16 & 9/16	6 1/2	1/8	.85
2027C	5/16 & 9/16	6 1/2	1/8	1.05
2728	5/16 & 9/16	7 3/4	1/8	1.05
2028	5/16 & 9/16	7 3/4	1/8	1.05
2028S	5/16 & 9/16	7 3/4	1/8	1.05
2729	5/16 & 9/16	7 3/4	1/8	1.05
2029	5/16 & 9/16	7 3/4	1/8	1.05
2030	5/16 & 9/16	7 3/4	1/8	1.05
2731	5/16 & 9/16	9 1/4	1/8	1.40
2731A	5/16 & 9/16	9 1/4	1/8	1.40
2031	5/16 & 9/16	9 1/4	1/8	1.40
2731B	5/16 & 9/16	9 1/4	1/8	1.40
2032	5/16 & 9/16	9 1/4	1/8	1.40
2033A	5/16 & 9/16	9 1/4	1/8	1.40
2033	5/16 & 9/16	9 1/4	1/8	1.40

Obstruction Wrench Sets

Contain one each Nos. 2723, 2025, 2027C, 2028S, and 2731A.
No. 2005CB— In Cardboard Box List Price \$4.50
No. 2005LR— In Leatherette Roll List Price 5.30
Note:—See page 40 for Wrench Reference Table.

Chrome Vanadium - Chromium Plated Open-End Wrenches and Sets

BLACKHAWK ARMSTRONG

Economy Series Tappet Wrenches

A FINE series of reasonably priced tappets, welcomed by every mechanic. Long and thin — they slip in easily where clearance is small. Forged of the best alloy steel — and chromium plated. Openings at 15° angle.

No.	Milled Openings	Length	Thickness of Head	List Price
420	$\frac{1}{8}''$ & $\frac{11}{16}''$	8"	$\frac{1}{16}''$	\$0.65
422	$\frac{5}{16}''$ & $\frac{7}{8}''$	8"	$\frac{1}{16}''$	.70
424	$\frac{5}{16}''$ & $\frac{11}{16}''$	8 $\frac{1}{2}$ "	$\frac{1}{16}''$	.75
426	$\frac{3}{4}''$ & $\frac{7}{8}''$	9"	$\frac{1}{16}''$	.90

Economy Tappet Set

Contains two each Nos. 422, 424, 426.

No.
22CB—In Cardboard Box. List Price \$4.70
22LR—In Leatherette Roll. List Price 5.40

Regular Series Tappet Wrenches

The length of these dandy wrenches allows extreme leverage, and makes tappet adjustment possible while motor is hot. Thin as a coin — but tough as a crowbar. Nothing beats this series.

Two styles provided:

- (1) Both ends milled with same openings.
- (2) Different sized openings on same wrench.

One end offset at $22\frac{1}{2}^\circ$ angle — other straight.

Perfect balance and design makes it easy to use three at once while adjusting tappets — two may be worked as a sciss-sors in one hand, and a third in the other.

401	$\frac{3}{16}''$	8"	$\frac{1}{16}''$	\$0.65
401A	$\frac{1}{8}''$	8"	$\frac{1}{16}''$	.65
402	$\frac{1}{8}''$	8 $\frac{1}{2}$ "	$\frac{1}{16}''$	.65
402A	$\frac{1}{8}''$	8 $\frac{1}{2}$ "	$\frac{1}{16}''$	.65
403	$\frac{1}{8}''$	8 $\frac{1}{2}$ "	$\frac{1}{16}''$	.65
403A	$\frac{1}{8}''$	8 $\frac{1}{2}$ "	$\frac{1}{16}''$	.65
404	$\frac{1}{8}''$	8 $\frac{1}{2}$ "	$\frac{1}{16}''$	.70
404A	$\frac{1}{8}''$	8 $\frac{1}{2}$ "	$\frac{1}{16}''$	.70
405	$\frac{1}{8}''$	8 $\frac{1}{2}$ "	$\frac{1}{16}''$	.70
406	$\frac{1}{8}''$	9"	$\frac{1}{16}''$	.75
406A	$\frac{1}{8}''$	9"	$\frac{1}{16}''$	.75
407	$\frac{1}{8}''$	9"	$\frac{1}{16}''$	.75
407A	$\frac{1}{8}''$	9"	$\frac{1}{16}''$	.75
408	$\frac{1}{8}''$	9"	$\frac{1}{16}''$	.90
408A	$\frac{1}{8}''$	9"	$\frac{1}{16}''$	.90
409	$\frac{1}{8}''$	9"	$\frac{1}{16}''$	.90
409B	End $\frac{1}{8}''$ & $\frac{11}{16}''$	Angle	$8\frac{1}{2}''$	\$0.65
402C	$\frac{1}{8}''$ & $\frac{11}{16}''$		$8\frac{1}{2}''$	.65
404B	$\frac{1}{8}''$ & $\frac{11}{16}''$		$8\frac{1}{2}''$	.70
404C	$\frac{1}{8}''$ & $\frac{11}{16}''$		$8\frac{1}{2}''$	.70
406B	$\frac{1}{8}''$ & $\frac{11}{16}''$	End	9"	.75
406C	$\frac{1}{8}''$ & $\frac{11}{16}''$	End	9"	.75

Tappet Wrench Sets

Nos. 412CB and 412LR

Contain two each Nos. 402, 403, 404 and 405. These wrenches have same sized opening on each end.

No.
412CB—In Cardboard Box. List Price \$5.40
412LR—In Leatherette Roll. List Price 6.20

Nos. 400CB and 400LR

Smaller set than above, but with more sizes. Wrenches have different sized openings on each end.

Contain one each Nos. 402B, 402C, 404B, 404C, 406B, 406C.

No.
400CB—In Cardboard Box. List Price \$4.20
400LR—In Leatherette Roll. List Price 4.90

Note:—See page 40 for Wrench Reference Table.



Economy Series
Tappets



No. 22LR Set



Regular Series
Tappets



No. 412LR

BLACKHAWK ARMSTRONG

Chrome Vanadium - Chromium Plated Open End Wrenches and Sets



No. 20LR Set



No. 2545



No. 1224 Series



"S" Wrenches
No. 1075 Series



No. 18LR Set

Miniature Wrenches and Sets

THESE Miniature Wrenches take the fight out of stubborn baby nuts.
Ideal for every small delicate job.

No.	Milled Opening In.	Length In.	Thickness of Head In.	List Price
H-10	$\frac{1}{16}$ & $\frac{1}{16}$	$2\frac{1}{2}$	$\frac{1}{16}$	\$0.45
H-12	$\frac{1}{16}$ & $\frac{1}{16}$	3	$\frac{1}{16}$	.45
H-14	$\frac{1}{16}$ & $\frac{1}{16}$	$3\frac{1}{4}$	$\frac{1}{16}$	.50
H-16	$\frac{1}{16}$ & $\frac{1}{16}$	$4\frac{1}{2}$	$\frac{1}{16}$	.50
H-18	$\frac{1}{16}$ & $\frac{1}{16}$	$4\frac{1}{2}$	$\frac{1}{16}$	.50

No. 20CB—One each of above. In Cardboard Box. List Price. \$2.40

No. 20LR—One each of above. In Leatherette Roll. List Price. 2.80

Water Pump Wrenches

SPANNER—Here's a new Water Pump Spanner Wrench that makes an easy job of adjusting Water Pumps on Fords, 1933 Pontiacs, and Chrysler models 75 and 80.

No. 2545—List Price \$1.00

OPEN ENDS—Designed especially for adjusting Water Pump packing nuts — very thin with short stroke.

1224	$\frac{1}{16}$	7	$\frac{1}{16}$	\$1.35
1224A	$\frac{1}{16}$	7	$\frac{1}{16}$	1.35
1226	$\frac{1}{16}$	7	$\frac{1}{16}$	1.35
1228	$\frac{1}{16}$	7	$\frac{1}{16}$	1.35
1230	$\frac{1}{16}$	7	$\frac{1}{16}$	1.35
1232	$\frac{1}{16}$	7	$\frac{1}{16}$	1.35
1232A	$\frac{1}{16}$	7	$\frac{1}{16}$	1.35
1234	$\frac{1}{16}$	7	$\frac{1}{16}$	1.35
1236S	$\frac{1}{16}$	7	$\frac{1}{16}$	1.35
1238	$\frac{1}{16}$	7	$\frac{1}{16}$	1.35
1240	$\frac{1}{16}$	7	$\frac{1}{16}$	1.35
1244	$\frac{1}{16}$	$7\frac{1}{4}$	$\frac{1}{16}$	1.50
1246	$\frac{1}{16}$	$7\frac{1}{4}$	$\frac{1}{16}$	1.50
1248	$\frac{1}{16}$	$7\frac{1}{4}$	$\frac{1}{16}$	1.50
1250	$\frac{1}{16}$	$7\frac{1}{4}$	$\frac{1}{16}$	1.50
1252	$\frac{1}{16}$	$7\frac{1}{4}$	$\frac{1}{16}$	1.50
1256	$\frac{1}{16}$	$7\frac{1}{4}$	$\frac{1}{16}$	1.85

"S" Wrenches

1075B	$\frac{1}{16}$ & $\frac{1}{16}$	$6\frac{1}{4}$	$\frac{1}{16}$	\$0.80
1075A	$\frac{1}{16}$ & $\frac{1}{16}$	$6\frac{1}{4}$	$\frac{1}{16}$	.80
1075	$\frac{1}{16}$ & $\frac{1}{16}$	$6\frac{1}{4}$	$\frac{1}{16}$	.80
1077S	$\frac{1}{16}$ & $\frac{1}{16}$	$7\frac{1}{4}$	$\frac{1}{16}$	1.00
1077B	$\frac{1}{16}$ & $\frac{1}{16}$	$7\frac{1}{4}$	$\frac{1}{16}$	1.00
1077	$\frac{1}{16}$ & $\frac{1}{16}$	$7\frac{1}{4}$	$\frac{1}{16}$	1.00
1079B	$\frac{1}{16}$ & $\frac{1}{16}$	$8\frac{1}{4}$	$\frac{1}{16}$	1.20
1079S	$\frac{1}{16}$ & $\frac{1}{16}$	$8\frac{1}{4}$	$\frac{1}{16}$	1.20
1079A	$\frac{1}{16}$ & $\frac{1}{16}$	$8\frac{1}{4}$	$\frac{1}{16}$	1.20
1079	$\frac{1}{16}$ & $\frac{1}{16}$	$8\frac{1}{4}$	$\frac{1}{16}$	1.20
1079C	$\frac{1}{16}$ & $\frac{1}{16}$	$8\frac{1}{4}$	$\frac{1}{16}$	1.20
1081	$\frac{1}{16}$ & $\frac{1}{16}$	$9\frac{1}{4}$	$\frac{1}{16}$	1.50
1081B	$\frac{1}{16}$ & $\frac{1}{16}$	$9\frac{1}{4}$	$\frac{1}{16}$	1.50
1081A	$\frac{1}{16}$ & $\frac{1}{16}$	$9\frac{1}{4}$	$\frac{1}{16}$	1.50
1083	$\frac{1}{16}$ & $\frac{1}{16}$	$10\frac{1}{4}$	$\frac{1}{16}$	1.95
1083B	$\frac{1}{16}$ & $\frac{1}{16}$	$10\frac{1}{4}$	$\frac{1}{16}$	1.95
1083A	$\frac{1}{16}$ & $\frac{1}{16}$	$10\frac{1}{4}$	$\frac{1}{16}$	1.95
1085	$1\frac{1}{16}$ & $1\frac{1}{16}$	12	$\frac{1}{16}$	2.75
1085C	$1\frac{1}{16}$ & $1\frac{1}{16}$	12	$\frac{1}{16}$	2.75
1085B	$1\frac{1}{16}$ & $1\frac{1}{16}$	12	$\frac{1}{16}$	2.75

Ignition Wrenches and Sets

These tools meet with the approval of Ignition experts. All tools shown are neatly contained in the two-tone gray-green leatherette case.

No.	Size Opening Inches	Used For	Price
E-2	$\frac{1}{16}$ x $\frac{1}{16}$	Northeast, Splitdorf & Bosch	\$0.45
E-3	$\frac{1}{16}$ ($\frac{1}{16}$ & $\frac{1}{16}$)	Eiseman	.45
E-4	$\frac{1}{16}$	Remy & Wagner	.45
E-5	$\frac{1}{16}$	Remy & Wagner	.45
E-6	$\frac{1}{16}$	Ford (Third Brush)	.75
E-7	$\frac{1}{16}$ ($\frac{1}{16}$)	Bosch (DU4 & DU6) Autolite	.60
E-8	$\frac{1}{16}$ & $\frac{1}{16}$	Delco Remy	.60
E-9	$\frac{1}{16}$	Remy (Cam)	.60
E-10	$\frac{1}{16}$ & $\frac{1}{16}$	Autolite (Generator)	.60
E-11	$\frac{1}{16}$ & $\frac{1}{16}$	Bosch	.95

No. 18CB—One each of above. In Cardboard Box. List Price. \$5.90

No. 18LR—One each of above. In Leatherette Roll. List Price. 6.60

Note:—See page 40 for Wrench Reference Table.

Chrome Vanadium - Chromium Plated Open-End Wrench Boards

BLACKHAWK ARMSTRONG

Bigger Open-End Wrench Profits Built with these
Silent Salesmen

EASY sales of open-end wrenches are made with these attractive four-color display assortments. Keep them up-front, before the eyes of your customers — they attract attention, and do a 100% selling job. Larger turnover is assured.

No. 60B Board

A select assortment of Engineer's, Obstruction, and Tappet Wrenches. Ideal for dealers who carry a skeleton stock of the most popular numbers.

Size of Board — 21" wide, 59" high.

Contents of No. 60B Board

(Two (2) each of the following wrenches)

Engineer's Wr.	1727	2027C	422
1021	1729	2028S	424
1023	1731A	2723	426
1027C	1731B	2731A	
1028S		2731B	
1033C	Obstruction Wr.		Waterp'p. Pliers
1723	2021	Tappets	12002
1725B	2025	420	

No.
60B— Assortment of 46 Wrenches List Price \$44.60

No. 70A Board

A de luxe assortment for the larger distributors. Size of board, 22" wide and 78" high.

Contents of No. 70A Board

(Two each of the following Wrenches)

Engineer's Wr.	1723A	2721	424
1021	1725	2723	426
1023	1725A	2723A	
1023	1725B	2725A	Miniature Wr.
1025	1727	2731A	H-10
1026	1728		H-12
1027	1729	Tappet Wr.	H-14
1027C	1731A	402	H-16
1028S		403	H-18
1029	Obstruction Wr.	404	
1033A	2025	405	Waterp'p. Pliers
1033C	2027C	420	H-1
1723	2028S	422	12002

No.
70A— Assortment of 84 Wrenches List Price \$71.80

No. 43A Board

Tappet Wrench Display Assortment

Ideal for every Parts House, Automotive Supply, and Hardware Store. Contains a fast-selling assortment of tappet wrenches to service all cars.

Same attractive and colorful display value as larger boards, but smaller. Can't be beat for floor or counter.

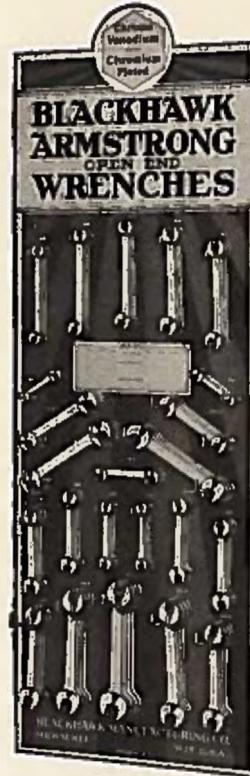
Size of board — 23" high and 16½" wide.

Contents of No. 43A Board

(Three each of the following Wrenches)

402	404	420	424
403	405	422	426

No.
43A— Assortment of 24 Wrenches List Price \$17.10



No. 60B—70A Board



No. 43A Board

BLACKHAWK WRENCHES

Wrench and Socket Sizes For Bolts and Nuts



HEXAGON					To Order Wrenches Use Sizes in this Column		SQUARE				
WRENCHES WILL FIT					WRENCHES WILL FIT						
U. S. S.		S. A. E.		American Std.	Mfrs. Std.		U. S. S.		Amer. Std.	Mfrs. Std.	
Bolts and Nuts	Cap Screws	Bolts and Nuts	Cap Screws	Bolt Heads	Nominal Size Over Flats	Bolts and Nuts	Cap Screws	Set Screws	Bolts and Nuts	Bolt Heads	
0 & 1					1/2				0 & 1		
2 & 3					1/2				2 & 3		
					1/2						
		4			1/4				4		
1/8	1/8	5 & 6			5/16				5 & 6		
		8			11/16				8		
1/4	1/4	10			13/16				10	1/4	
1/4	1/4	12 & 1/4	1/4	1/4	1 1/16				12 & 1/4		
					1 1/2					1/4	
1/4	1/4	1/4	1/4	1/4	1 1/4						
					1 1/2						
3/8	3/8	1/4	3/8		1 1/8				7/8	1/4	
1/2	1/2	3/8	3/8		1 1/4				1/2	3/8	
1/2	1/2	3/8	3/8		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
1/2	1/2	1/2	1/2		1 1/4					1/2	
					1 1/4					1/2</td	